HCD-RG55/RG55S

SERVICE MANUAL

Ver 1.1 2002. 06

AEP Model
UK Model
HCD-RG55S
E Model
Australian Model
HCD-RG55

- HCD-RG55/RG55S is the tuner, deck, CD and amplifier section in MHC-RG55/RG55S.

CD section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM58F-K6A CDM58FS-K6A
	Optical Pick-up Name	KSM-213DCP
Tape deck Section	Model Name Using Similar Machanism	NEW
	Tape Transport Mechanism Type	RG55: CWL43RR51 RG55S: CWL43FR50

SPECIFICATIONS

Amplifier section
European model:
HCD-RG55S
Front speaker
DIN power output (rated)
50+50 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
60+60 watts (6 ohms at 1 kHz, 10% THD)
Music power output (reference)
120+120 watts (6 ohms at 1 kHz, 10% THD)
Sub woofer
DIN power output (rated)
100 watts (12 ohms at 40 Hz, DIN)
Continuous RMS power output (reference)
120 watts (12 ohms at 40 Hz, 10% THD)
Music power output (reference)
120 watts (12 ohms at 40 Hz, 10% THD)

Other models:
HCD-RG55
The following measured at AC 120, 220, 230 – 240 V, 50/60 Hz
DIN power output (rated)
100+100 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
120+120 watts (6 ohms at 1 kHz, 10% THD)

Inputs
MD/VIDEO (AUDIO) IN (phono jacks):
voltage 450/250 mV, impedance 47 kilohms
GAME (AUDIO) IN (phono jack):
voltage 450 mV, impedance 47 kilohms
MIC (phone jack) (except for European models):
sensitivity 1 mV, impedance 10 kilohms

Outputs
PHONES (stereo mini jack):
accepts headphones of 8 ohms or more
Front speaker: accepts impedance of 6 to 16 ohms
Sub woofer speaker (MHC-RG55S only):
accepts impedance of 12 to 16 ohms

– Continued on next page –

COMPACT DISC DECK RECEIVER

9-874-003-02
2002F0400-1
© 2002. 06
Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ=780 nm) Emission duration: continuous
Frequency response	2 Hz – 20 kHz (±0.5 dB)
Wavelength	780 – 790 nm
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

CD OPTICAL DIGITAL OUT
(Square optical connector jack, rear panel)

Wavelength	660 nm
Output Level	–18 dBm

Tape deck section

Recording system	4-track 2-channel stereo
Frequency response	50 – 13,000 Hz (±3 dB), using Sony TYPE I cassette
Wow and flutter	±0.15% W.Peak (IEC) 0.1% W.RMS (NAB) ±0.2% W.Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range

European and Middle Eastern models:	
	531 – 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
European model:	230 V AC, 50/60 Hz
Australian models:	230 – 240 V AC, 50/60 Hz
Mexican model:	120 V AC, 50/60 Hz
Argentine models:	220 V AC, 50/60 Hz
Korean model:	220 V AC, 60 Hz
Other models:	120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	
European models:	
HCD-RG55S:	150 watts 0.5 watts (at the Power Saving Mode)
Other models:	
HCD-RG55:	200 watts
Dimensions (w/h/d)	Approx. 280 × 325 × 421 mm
Mass	
HCD-RG55S:	Approx. 9.0 kg
HCD-RG55:	Approx. 10.0 kg
Supplied accessories:	AM loop antenna (1) Remote Commander (1) Batteries (2) FM lead antenna (1) Front speaker pads (8)

Design and specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

This appliance is classified as a CLASS 1 LASER product. This label is located on the rear exterior.

SETTING AND RELEASING THE CD DISC TRAY LOCK FUNCTION

This set has a disc tray lock function to prevent discs for demonstration at shops from theft. While this lock function is set, the tray will not be delivered out even when the OPEN/CLOSE button is pressed.

Setting method:

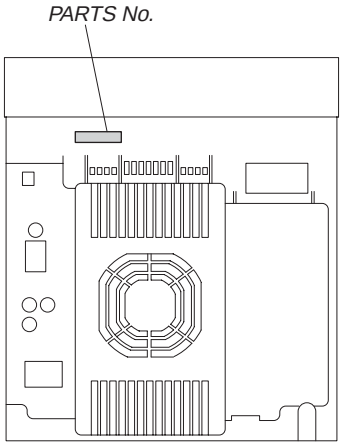
Press the OPEN/CLOSE button while pressing the STOP button.
After a few seconds, the message “LOCKED” will appear on the fluorescent indicator tube with the tray locked.

Releasing method:

Just as the lock is set, press the OPEN/CLOSE button while pressing the STOP button.
After a few seconds, the message “UNLOCKED” will appear with the lock released.

MODEL IDENTIFICATION

– BACK PANEL –



MODEL	PARTS No.
AR, E2, E51, SP models	4-238-649-01
AUS, KR, MX models	4-238-649-21
AEP, UK models	4-238-649-31

• Abbreviation
AUS : Australian model AR : Argentina model
SP : Singapore model E2 : Central and South America model
KR : Korea model E51 : Chilean and Peruvian model
MX : Mexican model

TABLE OF CONTENTS

1. SERVICE NOTE 5

2. GENERAL
Main Unit 6
Remote Control 7

3. DISASSEMBLY
3-1. Case (Top) 9
3-2. CD (Door) 9
3-3. Front Panel Section (AEP, UK Model) 10
3-4. Front Panel Section (Except AEP, UK Model) 11
3-5. Tape Mechanism Deck 12
3-6. Panel Board (AEP, UK Model) 12
3-7. Panel Board (Except AEP, UK Model) 13
3-8. Key Board 13
3-9. Sensor Board, DC Fan (FAN961) 14
3-10. Main Board, Sub Woofer Board, Power Board 15
3-11. CD Board 15
3-12. Base Unit 16
3-13. Driver Board, Motor Board, Sensor (CD) Board 16

4. TEST MODE 17

5. ELECTRICAL ADJUSTMENTS 21

6. DIAGRAMS
6-1. Circuit Boards Location 23
6-2. Printed Wiring Boards –CD Section (1/2)– 25
6-3. Printed Wiring Boards –CD Section (2/2)– 26
6-4. Schematic Diagram –CD Section– 27
6-5. Printed Wiring Board –Main Section– 28
6-6. Schematic Diagram –Main Section (1/4)– 30
6-7. Schematic Diagram –Main Section (2/4)– 31
6-8. Schematic Diagram –Main Section (3/4)– 32
6-9. Schematic Diagram –Main Section (4/4)– 33
6-10. Printed Wiring Boards –Panel Section– 34
6-11. Schematic Diagram –Panel Section– 35
6-12. Printed Wiring Board –Key Section– 36
6-13. Schematic Diagram –Key Section– 37
6-14. Printed Wiring Board –Sub Woofer Section– 38
6-15. Schematic Diagram –Sub Woofer Section– 39
6-16. Printed Wiring Boards –Power Section (1/3)– 40
6-17. Printed Wiring Board –Power Section (2/3)– 41
6-18. Printed Wiring Board –Power Section (3/3)– 42
6-19. Schematic Diagram –Power Section– 43

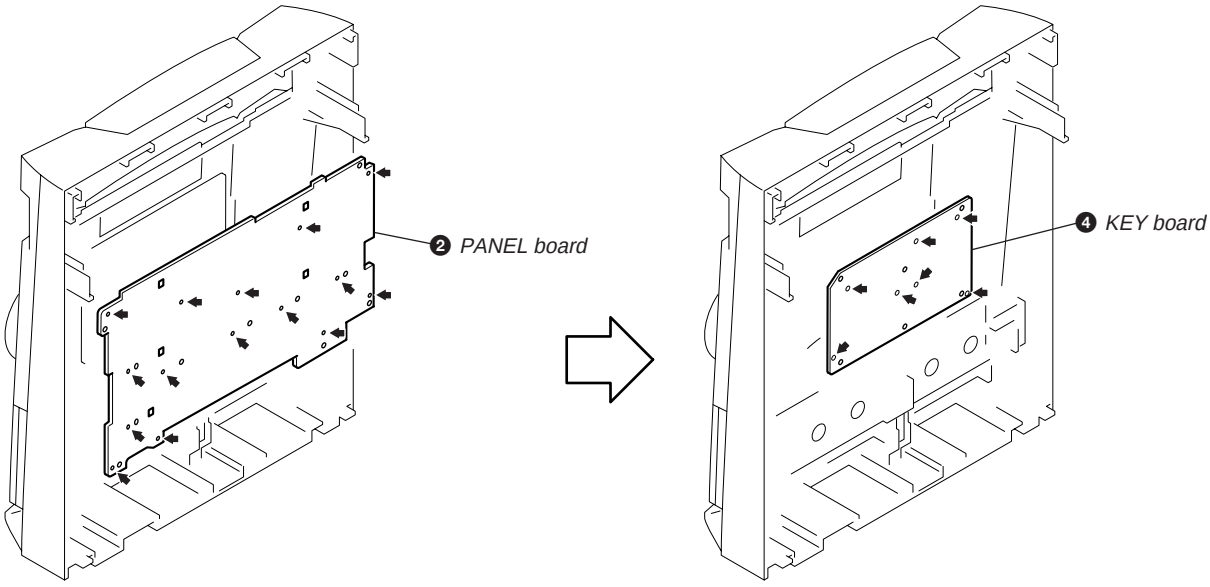
7. EXPLODED VIEWS
7-1. Main Section 46
7-2. Front panel Section 47
7-3. Main Board Section 48
7-4. CD Mechanism Deck Section 49
7-5. Optical Pick-up Section 50

8. ELECTRICAL PARTS LIST 51

SECTION 1
SERVICE NOTE

REMOVING THE PANEL BOARD AND THE KEY BOARD

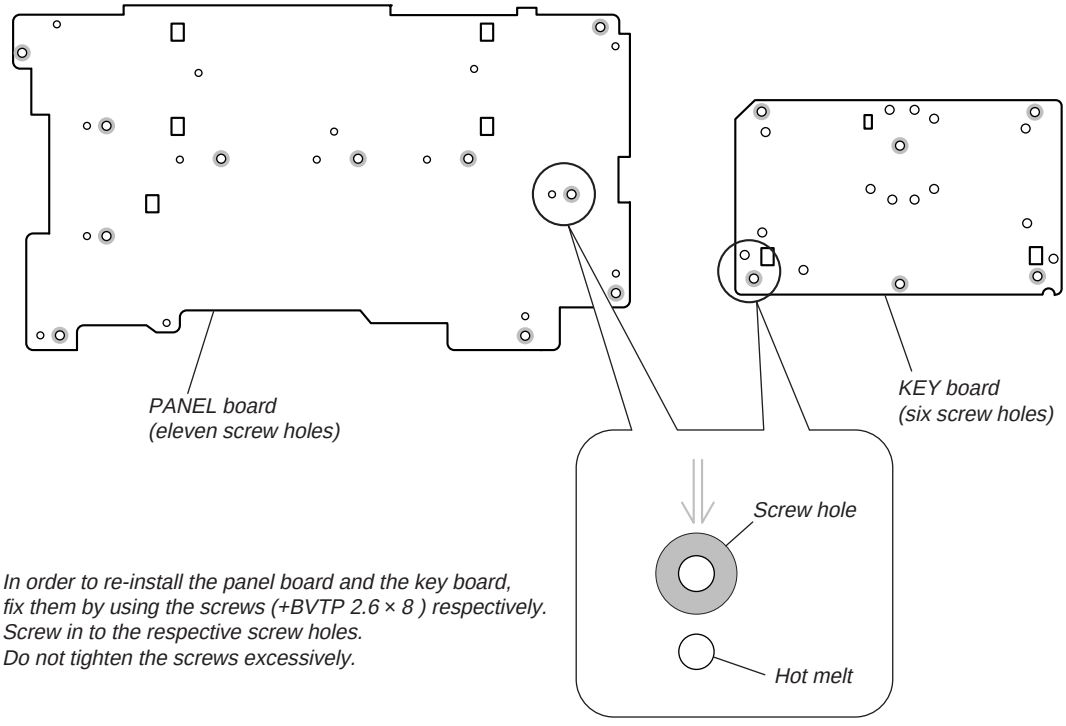
** The panel board and the key board only are connected to the front panel by means of hot-melting the plastics.*



❶ *Cut the fifteen melted-connection points with a cutting plier.*

❸ *Cut the seven melted-connection points with a cutting plier.*

Note for installing the panel board and the key board



In order to re-install the panel board and the key board, fix them by using the screws (+BVTP 2.6 × 8) respectively. Screw in to the respective screw holes. Do not tighten the screws excessively.

SECTION 2
GENERAL

This section is extracted from instruction manual.

Main unit

ALPHABETICAL ORDER

A – G

AUDIO jacks 26 (29)
CD 32 (12, 13, 19, 20)
CD SYNC 17 (19, 20)
Deck A 23 (17, 18)
Deck B 16 (17 – 21, 26)
DIRECTION 6 (18 – 20, 26)
DISC 1 – 3 10 (12, 13, 20)
DISC SKIP/EX-CHANGE 11 (11, 12)
Disc tray 9 (11)
DISPLAY 6 (17, 24)
EDIT 6 (20)
EFFECT ON/OFF 3 (22)
ENTER 12 (11, 13 – 15, 20, 23, 27, 28)
FM MODE 6 (16)
GAME 28 (25)
GAME EQ 21 (22)
GAME MIXING 22 (25)
GROOVE 2 (22)

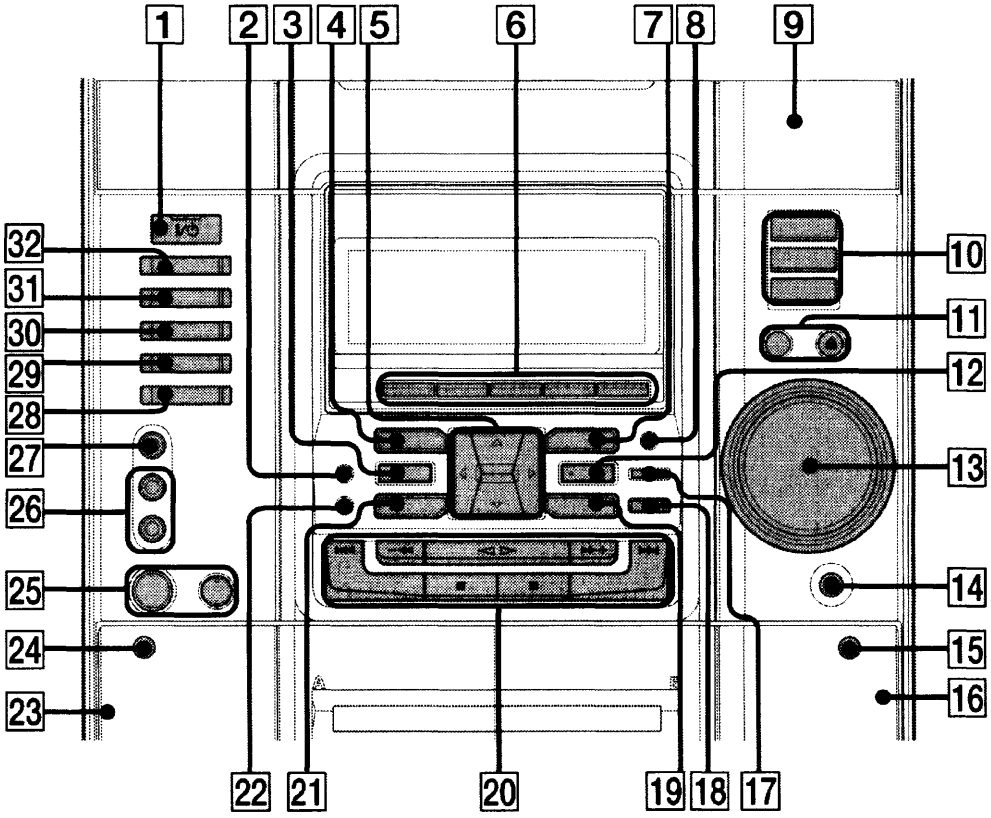
M – Z

MD (VIDEO) 29 (30)
MIC jack*1 25 (26)
MIC LEVEL control*1 25 (26)
MOVIE EQ 7 (22)
MUSIC EQ 4 (22)
P FILE 19 (23)
PHONES jack 14
PLAY MODE 6 (12, 13, 20)
REC PAUSE/START 18 (19, 20, 26)
REPEAT 6 (12)
SPECTRUM 6 (25)
SURROUND SPEAKER MODE*2 8 (21)
TAPE A/B 30 (17, 19)
TUNER MEMORY 6 (14, 15)
TUNER/BAND 31 (14 – 16, 19)
VIDEO jack 27 (29)
VOLUME control 13

BUTTON DESCRIPTIONS

I/⏻ (power) 1
▲/▼/◀/▶ 5
⏏ OPEN/CLOSE 11
⏏ (deck B) 15
▶▶ 20
I◀◀ 20
■ 20
◁▷ 20
II 20
▶▶I 20
◀◀ 20
⏏ (deck A) 24

*1 Except for European models
*2 MHC-RG66 only



Remote Control

ALPHABETICAL ORDER

A – G

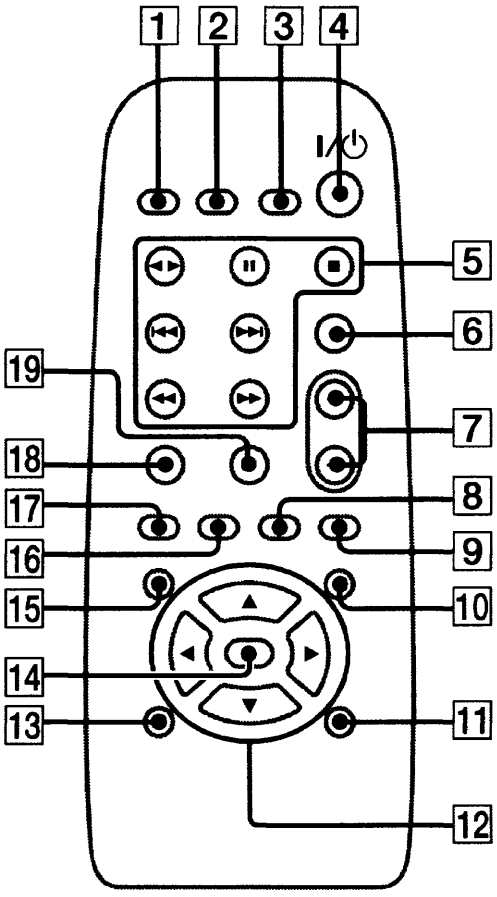
CD 17 (12, 13, 19, 20)
CLEAR 6 (13)
CLOCK/TIMER SELECT 2 (21, 28)
CLOCK/TIMER SET 3 (11, 20, 27)
D.SKIP 19 (12)
EFFECT ON/OFF 11 (22)
ENTER 14 (11, 13 – 15, 20, 23, 27, 28)
GAME 18 (25)

M – Z

MD (VIDEO) 9 (30)
P FILE 13 (23)
PRESET +/– 5 (14 – 16)
PRESET EQ 15 (22)
SLEEP 1 (27)
SURROUND 10 (23)
TAPE A/B 8 (17, 19)
TUNER/BAND 16 (14 – 16, 19)
TUNING +/– 5 (14 – 16)
VOL +/– 7

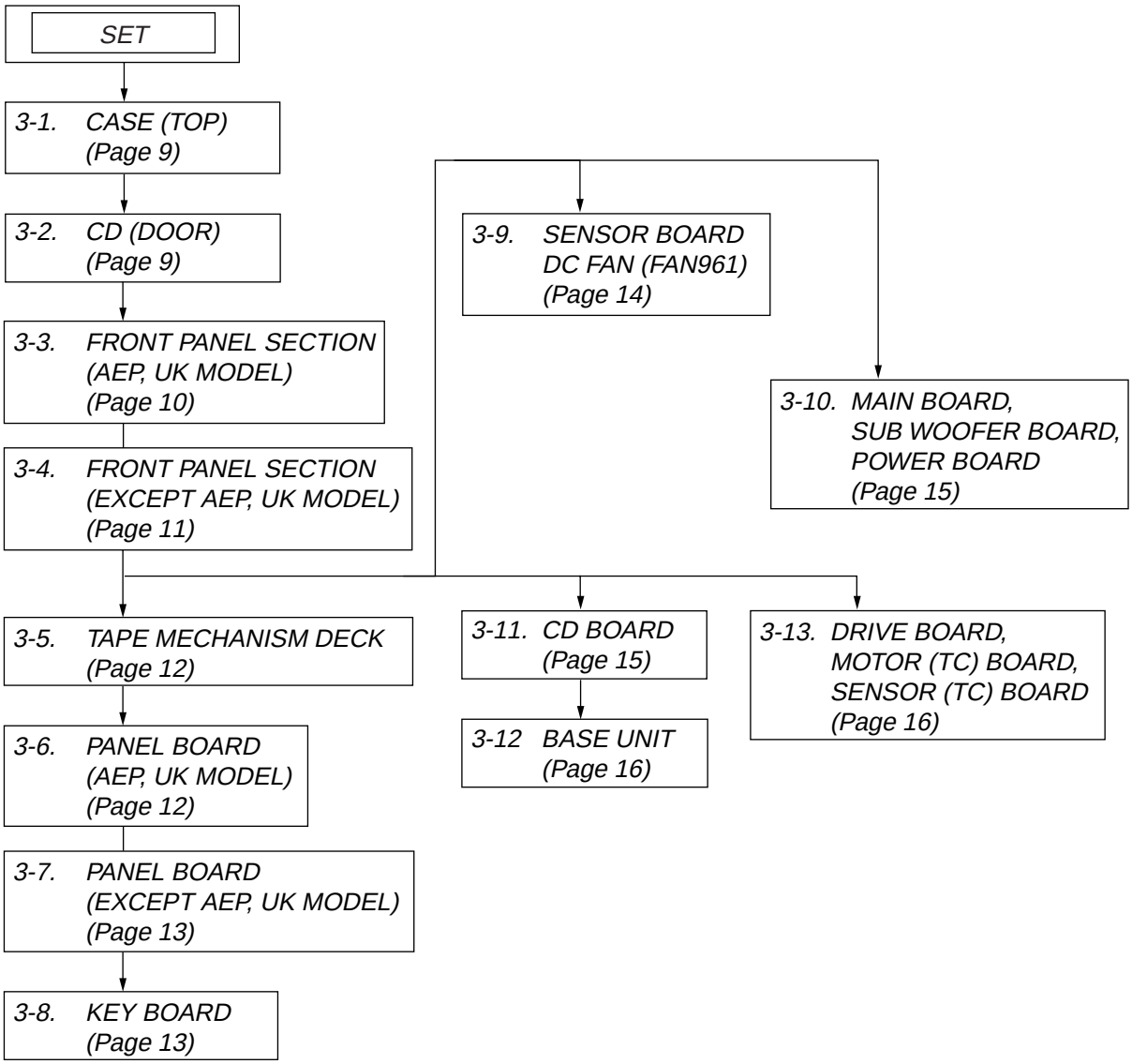
BUTTON DESCRIPTIONS

I/⏻ (power) 4
▶▶ 5
⏮ 5
■ 5
◀▶ 5
II 5
⏭ 5
◀◀ 5
▲/▼/◀/▶ 12

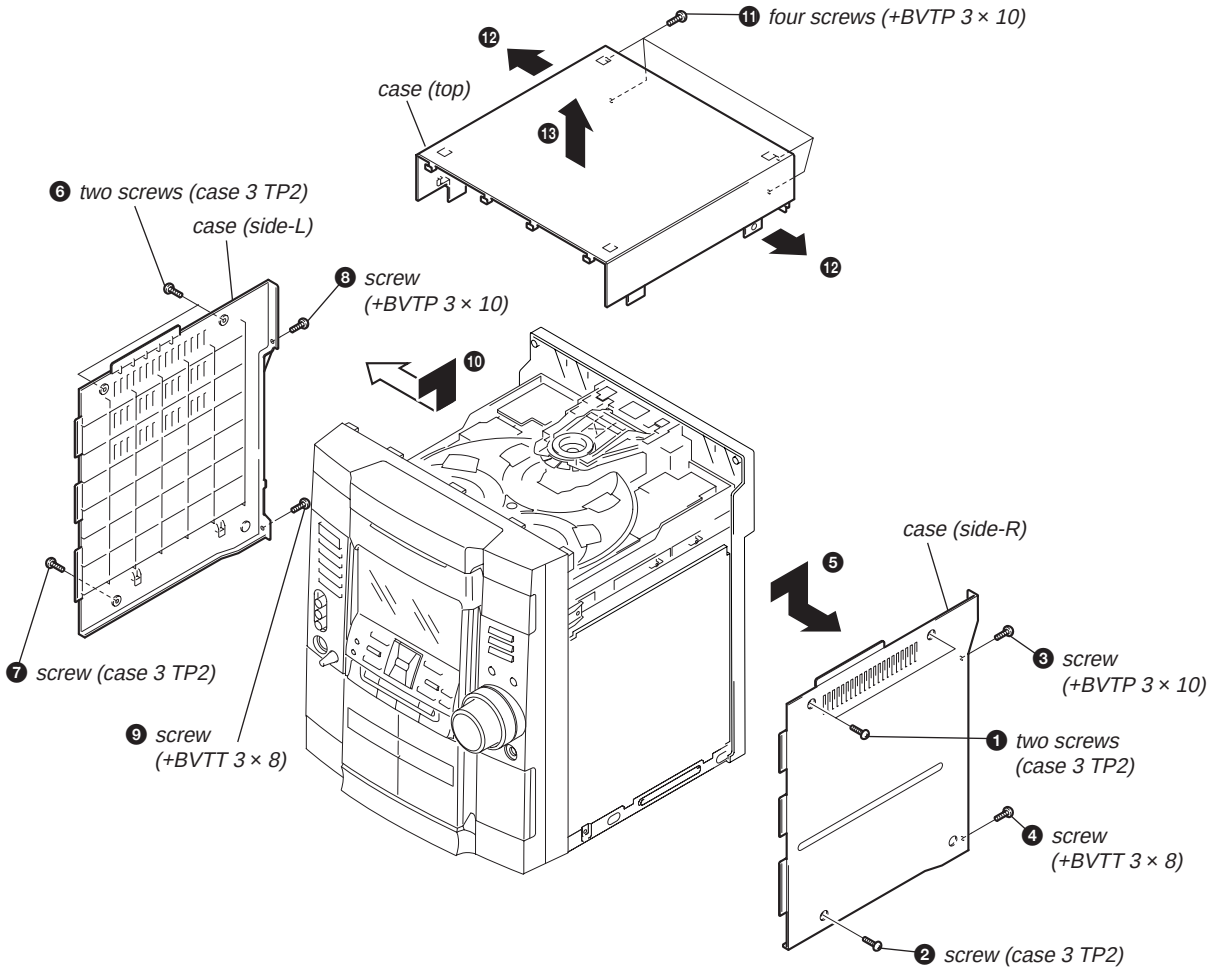


SECTION 3
DISASSEMBLY

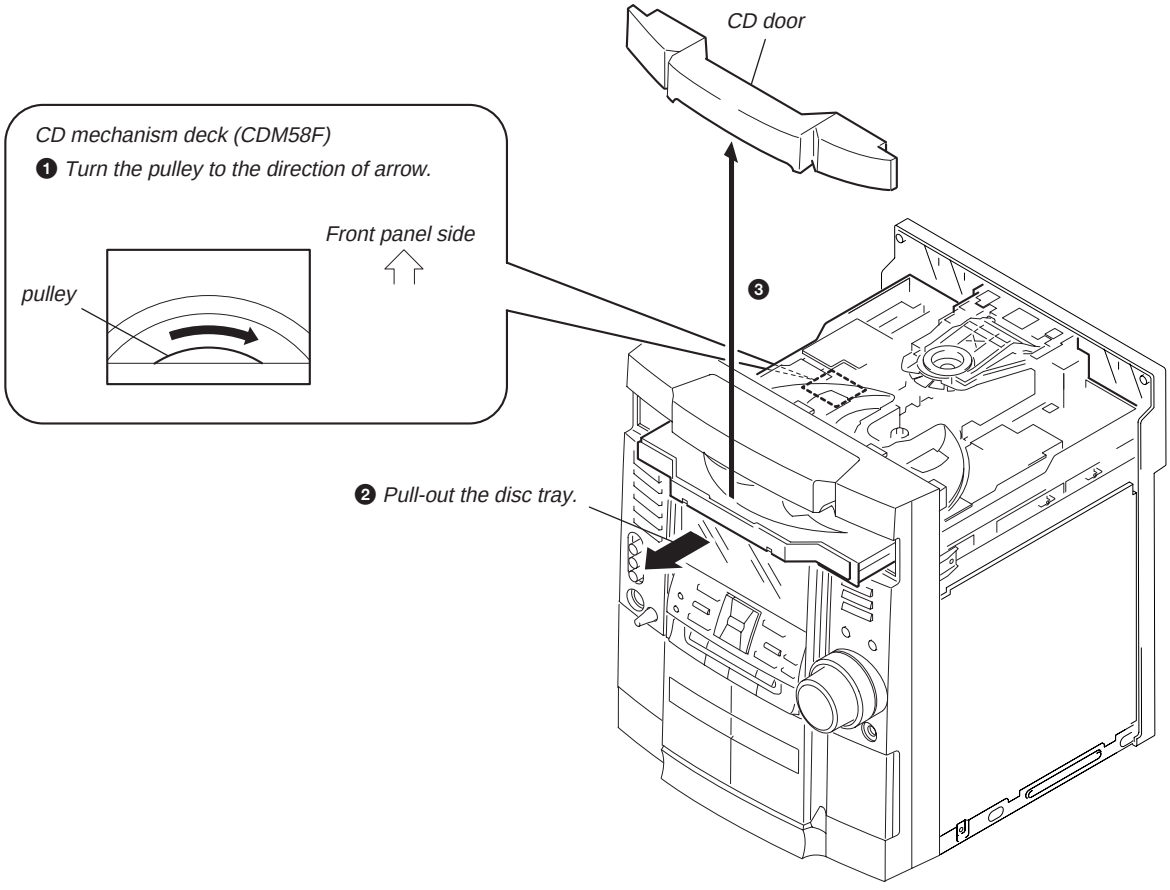
Note : Disassemble the unit in the order as shown below.


SET
3-1. CASE (TOP) (Page 9)
3-2. CD (DOOR) (Page 9)
3-3. FRONT PANEL SECTION (AEP, UK MODEL) (Page 10)
3-4. FRONT PANEL SECTION (EXCEPT AEP, UK MODEL) (Page 11)
3-5. TAPE MECHANISM DECK (Page 12)
3-6. PANEL BOARD (AEP, UK MODEL) (Page 12)
3-7. PANEL BOARD (EXCEPT AEP, UK MODEL) (Page 13)
3-8. KEY BOARD (Page 13)
3-9. SENSOR BOARD DC FAN (FAN961) (Page 14)
3-10. MAIN BOARD, SUB WOOFER BOARD, POWER BOARD (Page 15)
3-11. CD BOARD (Page 15)
3-12 BASE UNIT (Page 16)
3-13. DRIVE BOARD, MOTOR (TC) BOARD, SENSOR (TC) BOARD (Page 16)

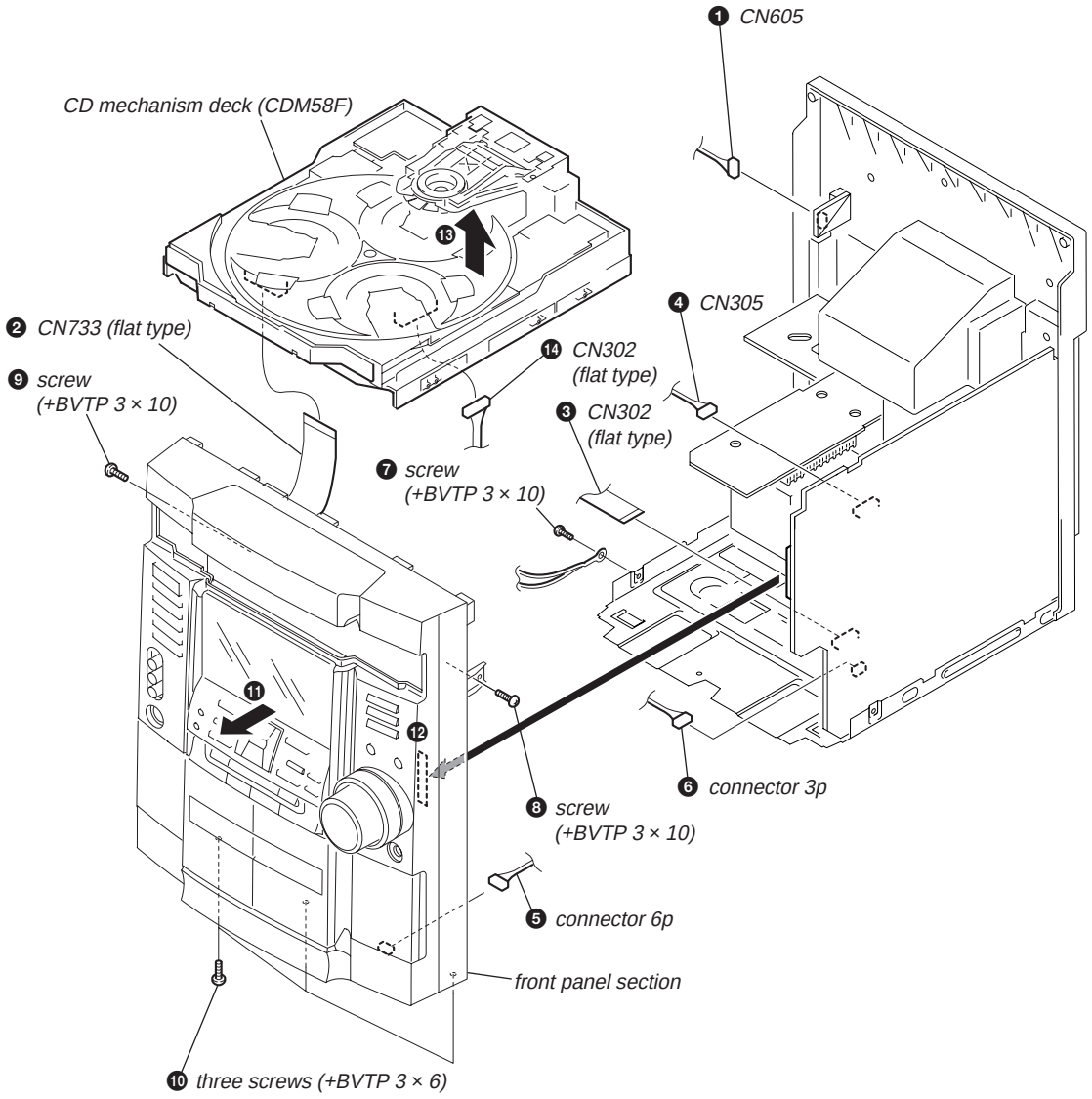
3-1. CASE (TOP)



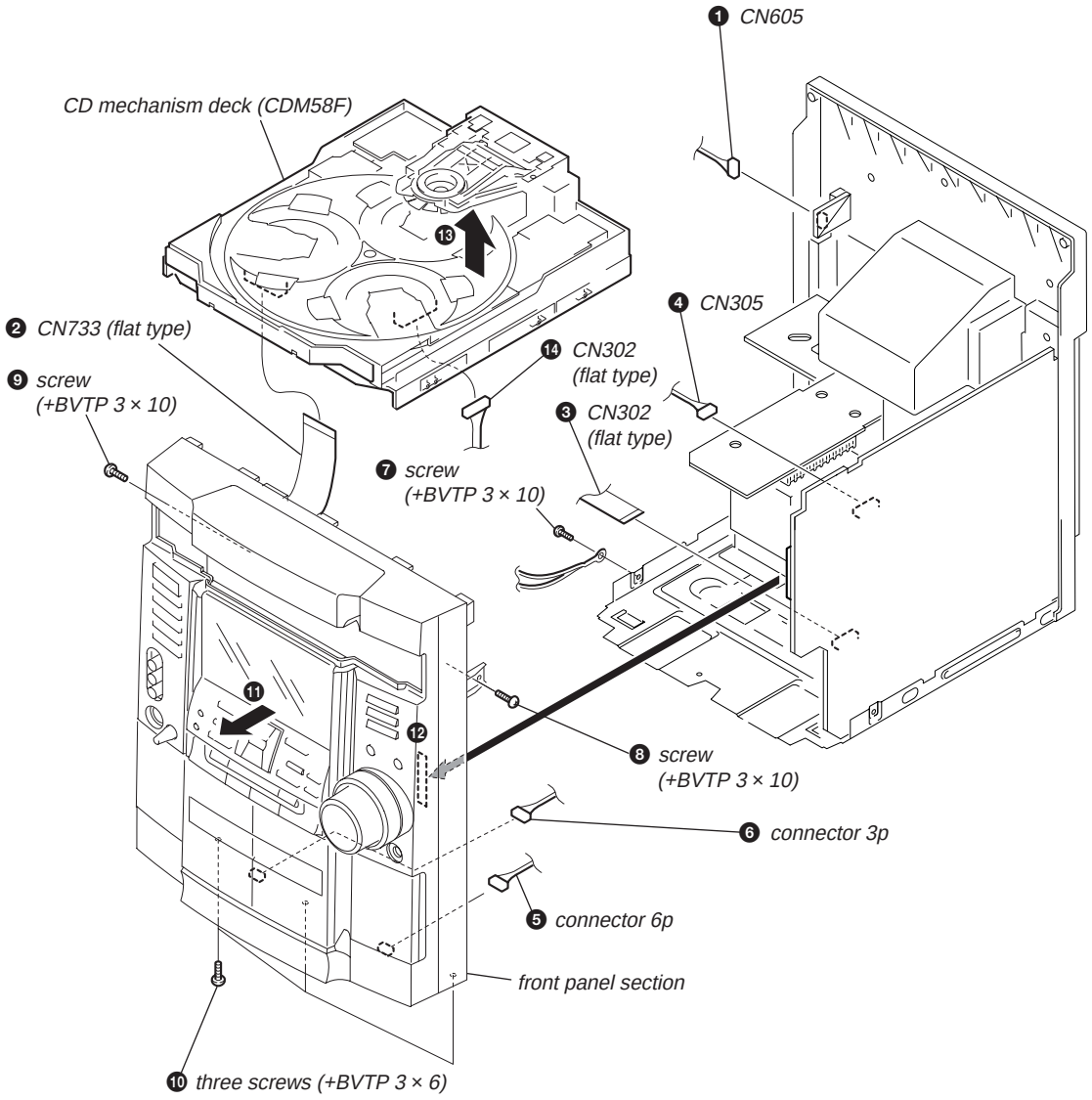
3-2. CD (DOOR)



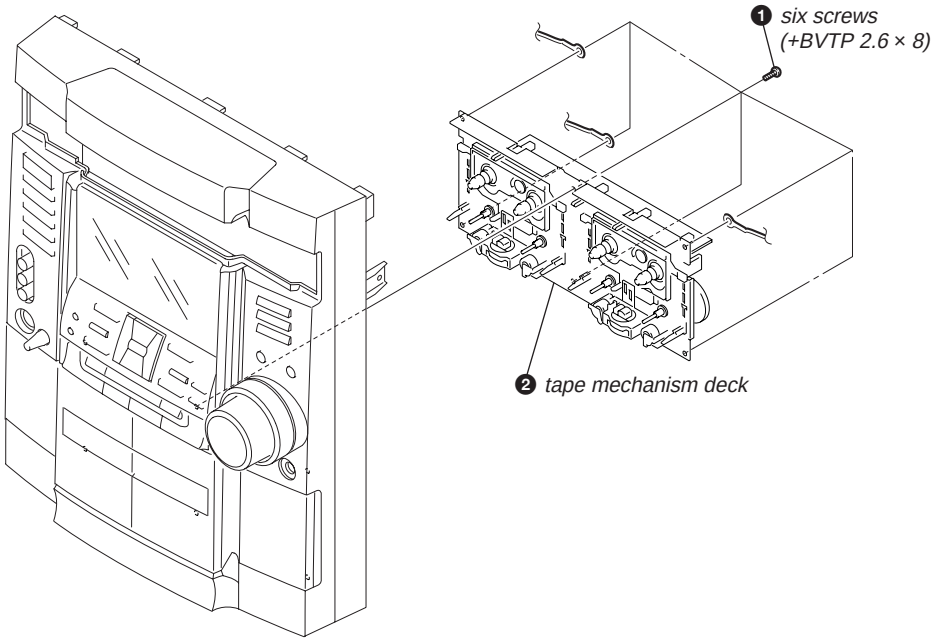
3-3. FRONT PANEL SECTION (AEP, UK MODEL)



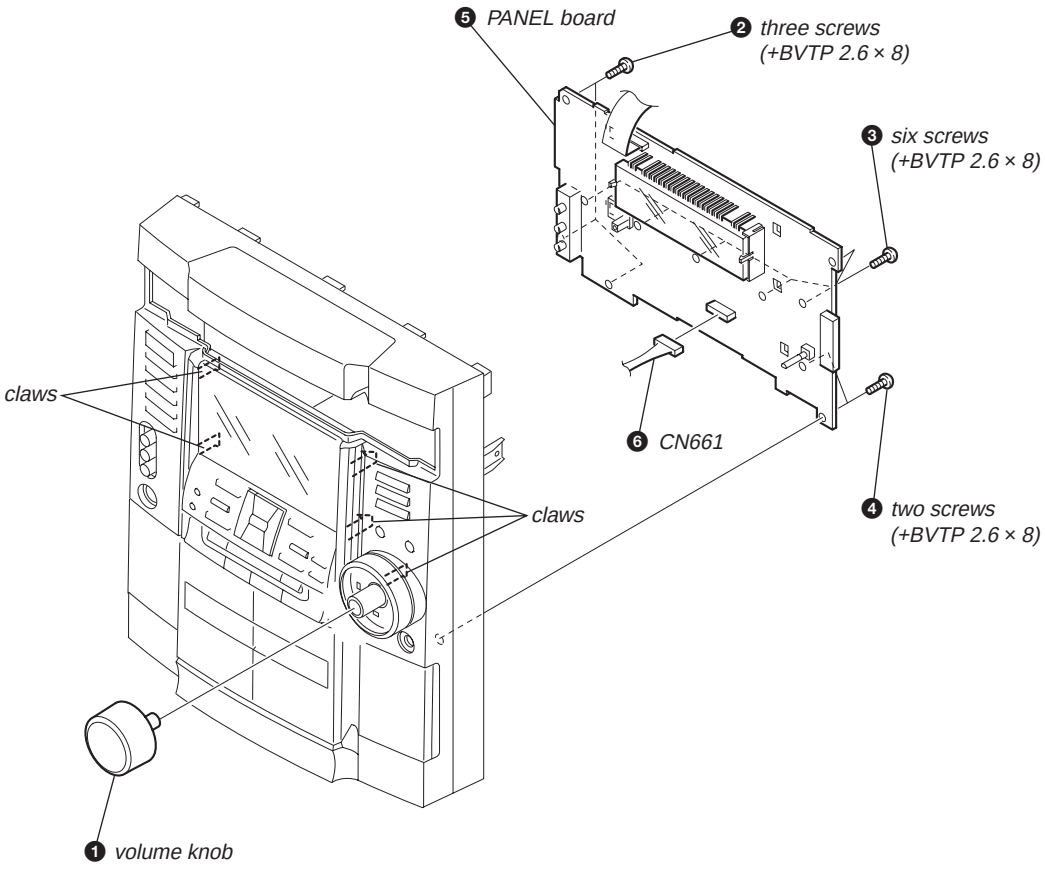
3-4. FRONT PANEL SECTION (EXCEPT AEP, UK MODEL)



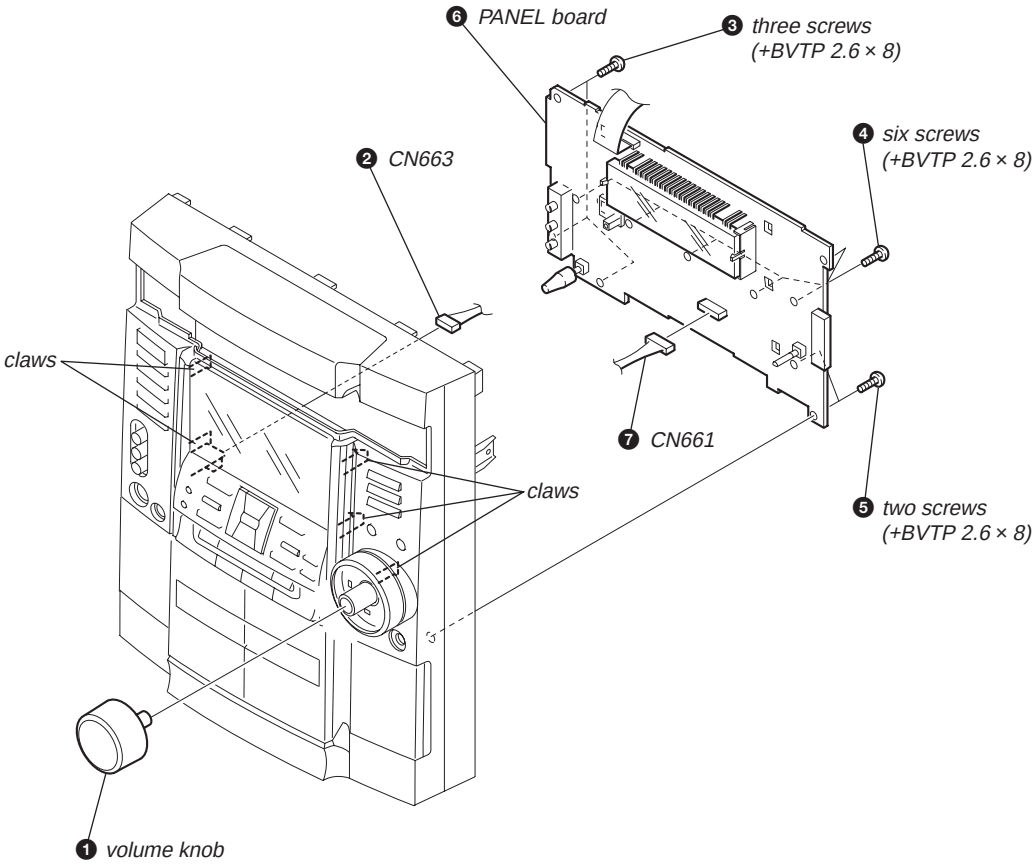
3-5. TAPE MECHANISM DECK



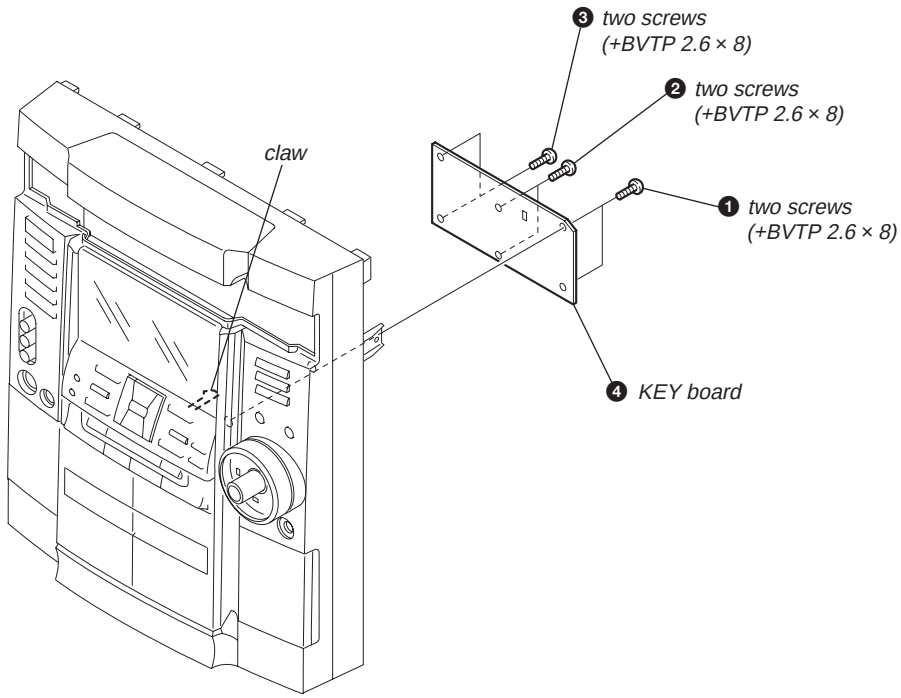
3-6. PANEL BOARD (AEP, UK MODEL)



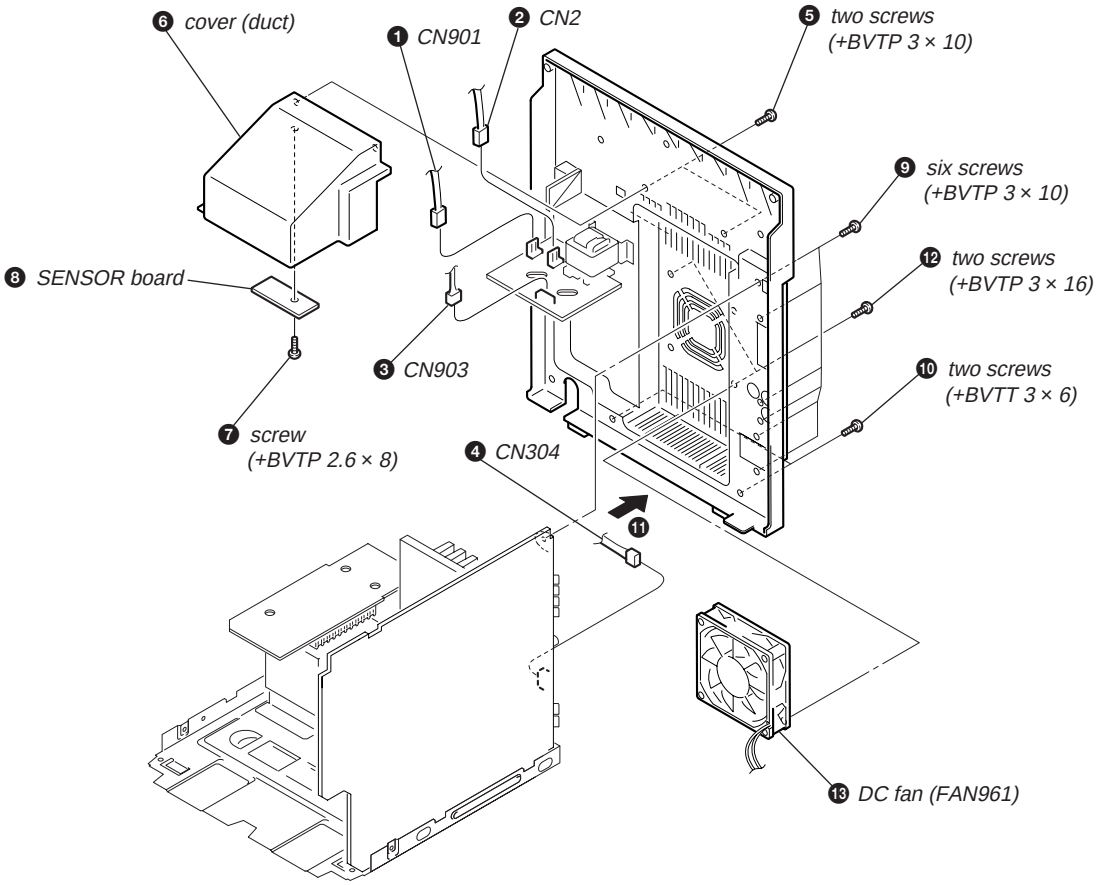
3-7. PANEL BOARD (EXCEPT AEP, UK MODEL)



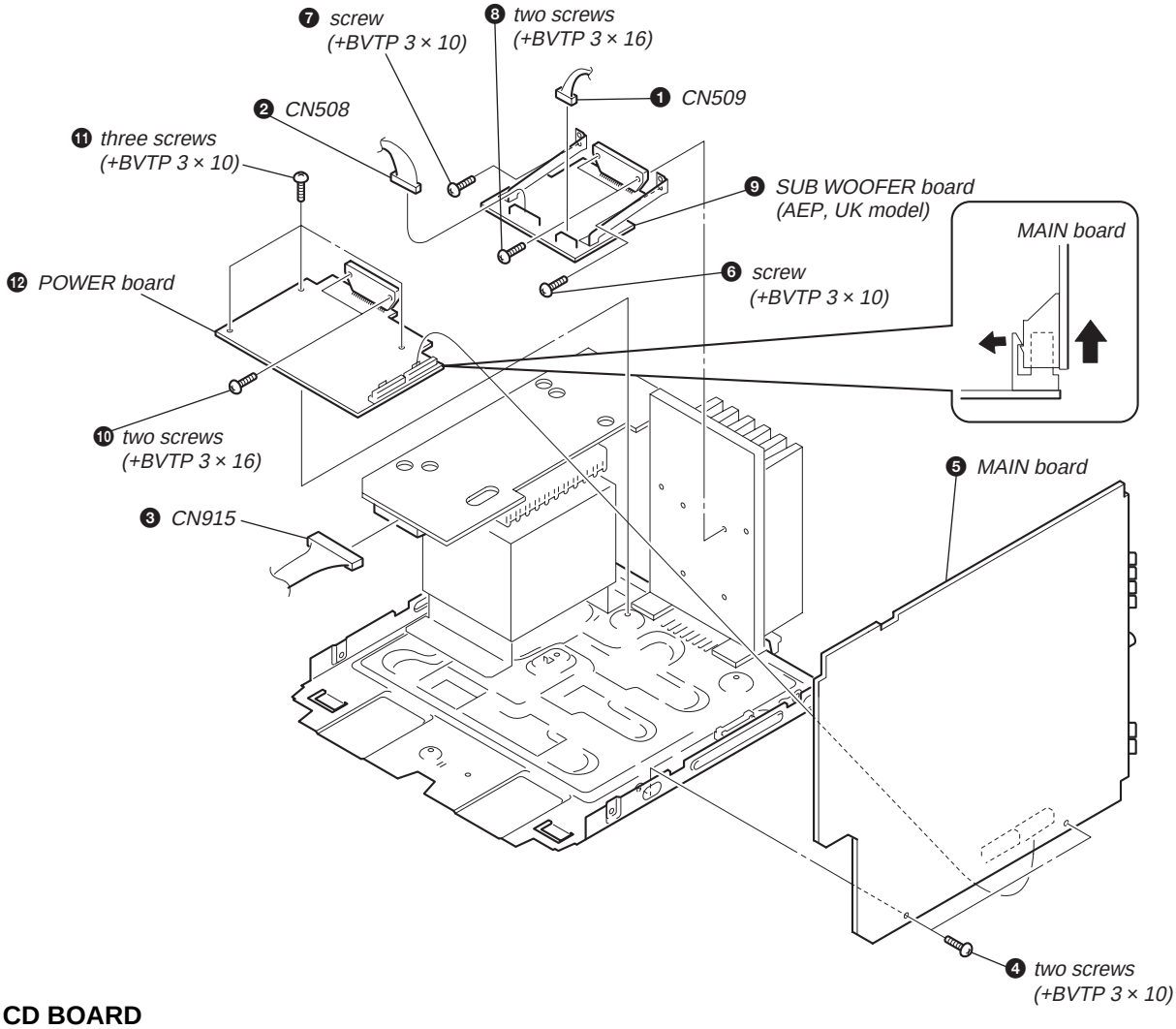
3-8. KEY BOARD



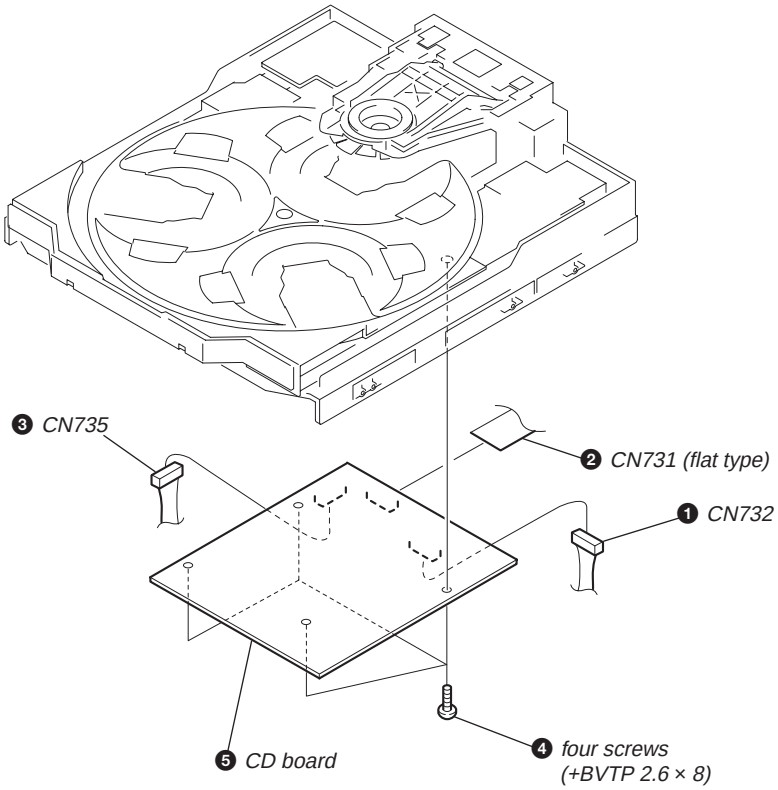
3-9. SENSOR BOARD, DC FAN (FAN961)


6 cover (duct)
1 CN901
2 CN2
5 two screws (+BVTP 3 × 10)
9 six screws (+BVTP 3 × 10)
12 two screws (+BVTP 3 × 16)
8 SENSOR board
3 CN903
10 two screws (+BVTT 3 × 6)
7 screw (+BVTP 2.6 × 8)
4 CN304
11
13 DC fan (FAN961)

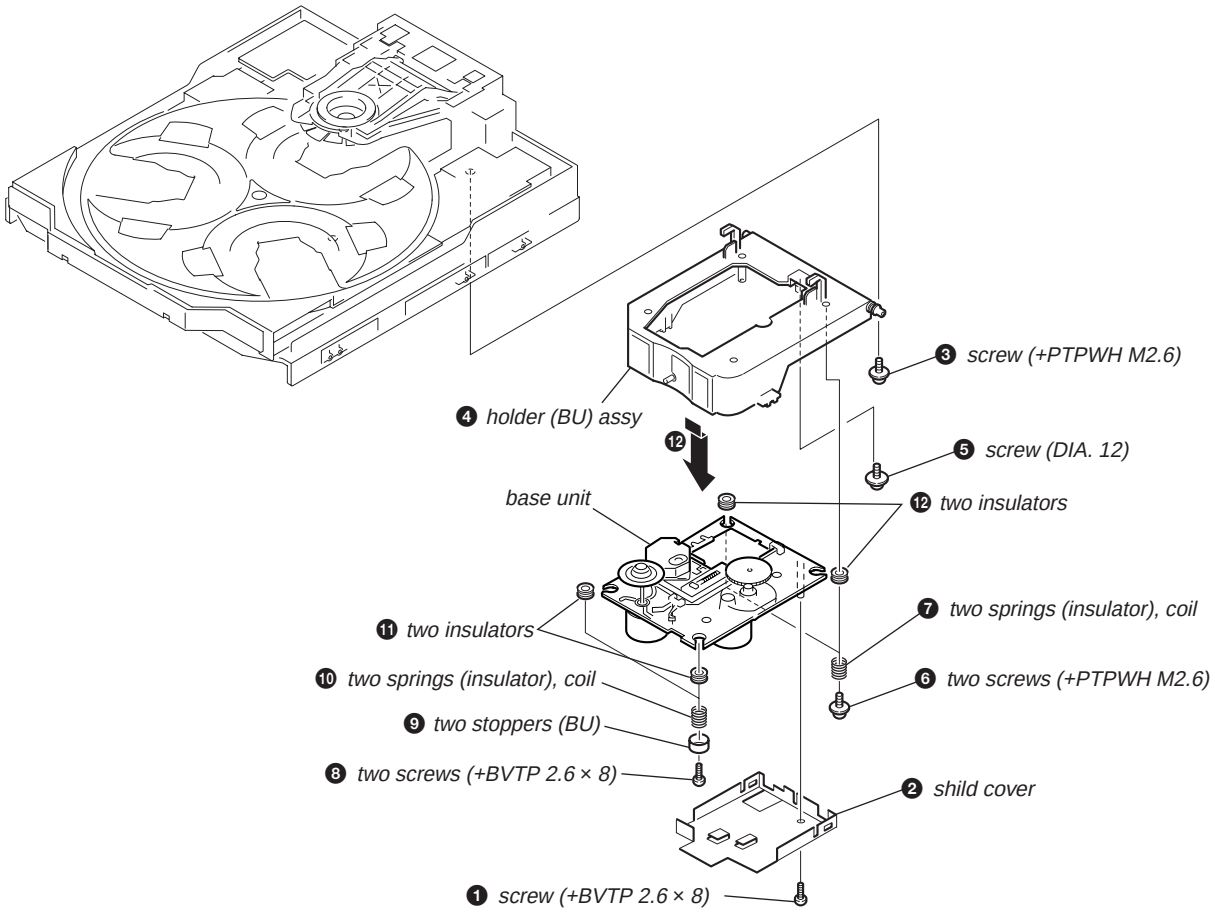
3-10. MAIN BOARD, SUB WOOFER BOARD, POWER BOARD



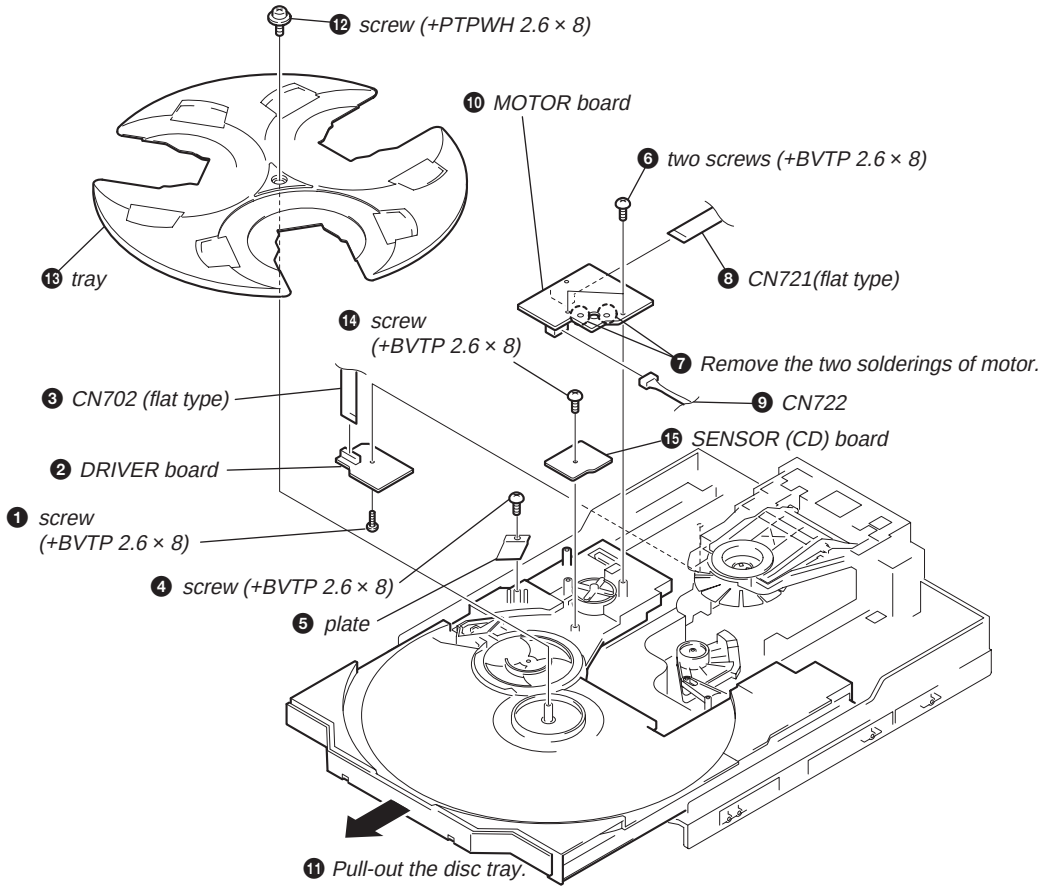
3-11. CD BOARD



3-12. BASE UNIT


❸ screw (+PTPWH M2.6)
❹ holder (BU) assy
⓬
❺ screw (DIA. 12)
base unit
⓬ two insulators
⓫ two insulators
❼ two springs (insulator), coil
❿ two springs (insulator), coil
❻ two screws (+PTPWH M2.6)
❾ two stoppers (BU)
❽ two screws (+BVTP 2.6 × 8)
❷ shild cover
❶ screw (+BVTP 2.6 × 8)

3-13. DRIVER BOARD, MOTOR BOARD, SENSOR (CD) BOARD



SECTION 4
TEST MODE

[Cold Reset]

• The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons ■ , GROOVE , and I/⏻ simultaneously.
2. The fluorescent indicator tube displays “COLD RESET” and the set is reset.

[CD Ship Mode]

• This mode moves the pickup to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press I/⏻ button to turn the set ON until “STANDBY” appears.
2. Press CD button and I/⏻ button simultaneously.
3. When you releaset he buttons, a message “LOCK” is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[Hot Reset]

• This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons ■ , GAME EQ , and DISPLAY simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[CD Service Mode]

• This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Press I/⏻ button to turn the set ON.
2. Select the function “CD”.
3. Press three buttons ■ , GAME EQ , and OPEN/CLOSE simultaneously.
4. The CD service mode is selected.
5. With the CD in stop status, press the ▶▶I key to move the pickup to outside track, or turn the shuttle knob counter-clockwise to inside track.
6. To exit from this mode, perform as follows:
   1) Move the pickup to the most inside track.
   2) Cold reset.

Note: • Always move the pickup to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
• Do not run the sled motor excessively, otherwise the gear can be chipped.

[Change-over of AM Tuner Step between 9 kHz and 10 kHz]

• A step of AM channels can be changed over between 9 kHz and 10 kHz.

Procedure:

1. Press I/⏻ button to turn the set ON.
2. Select the function “TUNER”, and press TUNER/BAND button to select the BAND “MW”.
3. Press I/⏻ button to turn the set OFF.
4. Press ENTER and I/⏻ buttons simultaneously, and the display of fluorescent indicator tube changes to “AM 9 k STEP” or “AM 10 k STEP”, and thus the channel step is changed over.

[GC Test Mode]

• This mode is used to check the software version, FL tube, LED, keyboard, headphone and volume.

Procedure:

1. Press three buttons ■ , GAME EQ and DISC2 simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
3. When GAME EQ and DISC2 are pressed at the same time, the key number check mode starts up. In this mode, the key numbers of each key series are displayed.
4. In the key check mode, the fluorescent indicator tube displays “KEY 000”. Each time a button is pressed.
5. When GAME EQ and DISC2 are pressed at the same time, the key count check mode starts up. In this mode, the message “KEY CNT @@” is displayed on the FL display tube. When each button is pressed, the key row number is incremented first. Then the key value is then incremented. However, one the button is pressed, the key value cannot be counted.
6. When GAME EQ and DISC2 are pressed at the same time, the headphones check mode starts up. In this mode, the message “H_P ON” is displayed when the headphones are inserted. When the headphones are not inserted, the message “H_P OFF” is displayed.
7. When GAME EQ and DISC2 are pressed at the same time, the volume check mode starts up. In this mode, the message “VOLUME STOP” is displayed on the FL display tube. When the volume control knob is rotated in the positive (+) direction, the message “VOLUME UP” is displayed. When the volume control knob is rotated in the negative (–) direction, the message “VOLUME DOWN” is displayed.
8. In order to quit the mode, either press GAME EQ and DISC2 at the same time or press the three buttons at the same time as in step 1.
9. To exit from this mode, cold reset or disconnect the power cord.

[MC Test Mode]

• This mode is used to check operations of the respective sections of Amplifier, TUNER, CD and Tape.

Procedure:

1. Press the I/⏻ button to turn on the set.
2. Press the three buttons of ■ , GAME EQ and DISC 3 simultaneously.
3. A message “TEST MODE” appears on the FL display tube.
   • The messages VACS1 to VACS5 are displayed when the VACS is changed in this mode.
   • The number of repeats of TAPE and CD is set to the infinite number as the default setting.
4. When MUSIC EQ button is pressed, GEQ increases to its maximum and a message “GEQ MAX” appears.
5. When MUSIC EQ button is pressed, GEQ decreases to its minimum and a message “GEQ MIN” appears.
6. When EFFECT ON/OFF button is pressed, GEQ is set to flat and a message “GEQ FLAT” appears.
7. In the test mode, the default-preset channel is called even when the TUNER is selected and an attempt is made to call the preset channel that has beeen stored in memory, by operating the Shuttle knob. (It means that the memory is cleared.)
8. When a tape is inserted in the Deck B and the TAPE B function is selected, and when the REC PAUSE/START buttton is pressed twice, recording starts.
   The VIDEO function is selected automatically as the input source.
9. Select the desired loop by pressing the PLAY MODE button in the TAPE B function. Insert a test tape AMS-110A or AMS-RO to Deck A.
10. Press the SPECTRUM button to enter the AMS test mode.
11. After a tape is rewound first, the FF AMS is checked, and the mechanism is shut off after detecting the AMS signal twice.
12. Then the REW AMS is checked and the mechanism is shut off after detecting the AMS signal twice.
13. When the check is complete, a message of either OK or NG appears.
14. When the two buttons of SPECTRUM and DISC1 are pressed at the same time in any function modes, either the “VACS ON” display to enable the VACS function or the “VACS OFF” display to disable the VACS function can be selected.
15. When you want to exit this mode, press the I/⏻ button twice. The cold reset is enforced at the same time.

[Microprocessor version display]

• If the following operation is performed during the POWER OFF in the modes other than the POWER SAVE mode (i.e., while the Demo display shows the watch time).

1. When three buttons of STOP , GAME EQ , MOVIE EQ are pressed at the same time, the model name and destination are displayed as “GYO AS1A3”.
2. When three buttons of STOP , GROOVE are pressed at the same time, the MC and the GC microprocessor version numbers are displayed as “V01.02:01.12.24”.

[Aging mode]

This mode can be used for operation check of CD section and tape deck section.

• If an error occurred:
  The aging operation stops and display status.
• If no error occurs:
  The aging operation continues repeatedly.

1. Operating method of Aging Mode

Turn on the main power and select “CD” of the function.

1) Set a disc in DISC1 tray. Select ALL DISC CONTINUE, and REPEAT OFF.
2) Load the tapes recording use into the decks A and B respectively.
3) Press three buttons ■ , GAME EQ , and
   DISC SKIP EX-CHANGE simultaneously.
4) Aging operations of CD and tape are started at the same time.
5) To exit the aging mode, perform [Cold Reset].

2. Aging Mode in CD section

1) Display state

• No error occurs Display

AGING ✳✳✳✳

Note:

✳✳✳✳ : Number of aging operations

Error display

E ✳✳ □ ## $$ ⁒

① ② ③ ④ ⑤

① ✳✳	The error No. 00 indicates the newest error. As the error No. increases, it means the older error. When you want to retrieve the error history, press the PLAY MODE button in the case of mechanism error. Or press the REPEAT button in the case of NO DISC error.	
② □	M: Mechanism error	D: No disc error
③ ##	Don’t care	01: FOCUS ERROR 02: GFS ERROR 03: SETUP ERROR
④ $$	High order digits only D: Stopped during closing due to problems other than mechanism. E: Stopped during opening due to problems other than mechanism. C: Stopped during chucking due to problems other than mechanism. F: Stopped during EX-opening due to problems other than mechanism.	01: NO DISC judgment without chucking retry 02: NO DISC judgment after chucking retry
⑤ ⁒	Emergency related errors (High order digits only) 1: Stopped during chuck-up 2: Stopped during chuck-down 3: Time out by EX-OPEN 5: Time out by EX-CLOSE	Status at the time of NO DISC judgment (High order digits only) 1: STOP 2: SETUP 3: TOC READ 4: ACCESS 5: PLAY BACK 6: PAUSE 7: MANUAL SEARCH (PLAY) 8: MANUAL SEARCH (PAUSE)

• When the buttons ■ , ENTER and DISC 1 are pressed simultaneously, number of time of the mechanism error and the NO DISC error can be checked.
  Display: EMC✳✳EDC✳✳ ✳✳ : Number of times of error (Maximum three times)
  EMC : Mechanism error
  EDC : No DISC error

• When aging operation is complete, be sure to perform the MC Cold Reset to reset the error history.

2) Operation during aging mode
In the aging mode, the program is executed in the following sequence.
(1) The disc tray opens and closes.
(2) The mechanism accesses DISC 2 and makes an attempt to read TOC. However, since there are no discs, a message “CD2 NO DISC” appears.
(3) The mechanism accesses DISC 3 and a message “CD3 NO DISC” appears.
(4) The disc tray turns to select a disc1.
(5) A disc is chucked.
(6) TOC of disc is read.
(7) The pickup accesses to the track 1, and playing 2 seconds.
(8) The pickup accesses to the last track, and playing 2 seconds.
(9) Every time when an aging operation of step 1 to step 8 is complete, the display “AGING ⊠⊠⊠⊠” value increases as the number of aging operations is counted up.
(10) Returns to step 1.

3. Aging Mode in Tape Deck section
1) Display state
• No error occurs
Display action now
• Error occurred
Display action last time

NO.	Display action	Action contents	Final timing
1	TAPE A AG-6 TAPE B AG-1	Rewind the TAPE A Rewind the TAPE B	The top of tape
2	TAPE A AG-2	FWD play the TAPE A	2 minutes playing
3	TAPE A AG-3	EE the TAPE A	20 second FF or the end of tape
4	TAPE A AG-4	REV play the TAPE A	2 minutes playing
5	TAPE A AG-5	Rewind the TAPE A	The top of tape
6	TAPE B AG-2	FWD play the TAPE B	2 minutes playing
7	TAPE B AG-3	EE the TAPE B	20 second FF or the end of tape
8	TAPE B AG-4	REV paly the TAPE B	2 minutes playing
9	TAPE B AG-5	Rewind the TAPE B	The top of tape

2) Operation during aging mode
In the aging mode, the program is executed in the following sequence.
(1) Rewind is executed up to the top of tape A and B.
(2) A tape on FWD side is played for 2 minutes.
(3) FF is executed up to either made for 20 second or the end of tape.
(4) A tape is reversed, and the tape on REV side is played for 2 minutes.
The tape on the REV side is played in both A and B.
(5) Rewind is executed up to the top of tape.
(6) Returns to step 2, and repeat steps from 2 to 5.

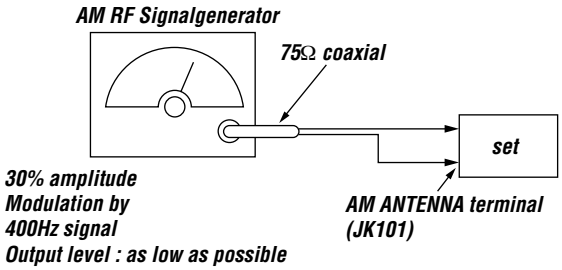
[Function Change Mode]
* elect either VIDEO or MD of the external FUNCTION input.

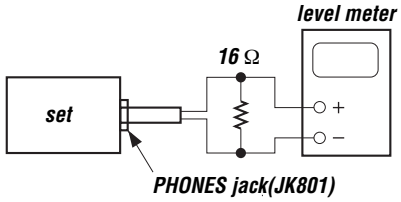
Procedure:
1. Turn on the power.
2. Press the two buttons MD (VIDEO) and I/⏻ at the same time.
The main power is turned on and the other function of the previous function is selected and displayed. “MD” or “VIDEO”.

SECTION 5
ELECTRICAL ADJUSTMENTS

TUNER SECTION

AM IF Adjustment

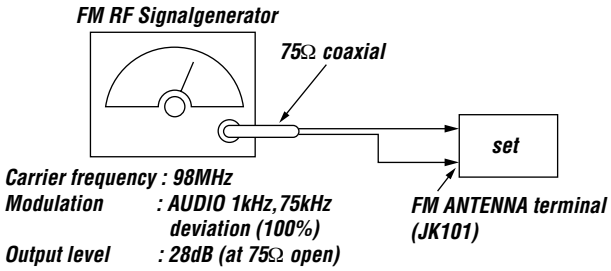




Procedure:

1. Set the frequency of the AM RF signal generator to 1000 kHz (at 10 kHz step) or 999 kHz (at 9 kHz step).
2. Tune the set to AM 1000 kHz (at 10 kHz step) or 999 kHz (at 9 kHz step).
3. Adjust IFT101 so that the reading on level meter becomes in maximum.

FM Tuned Level Adjustment

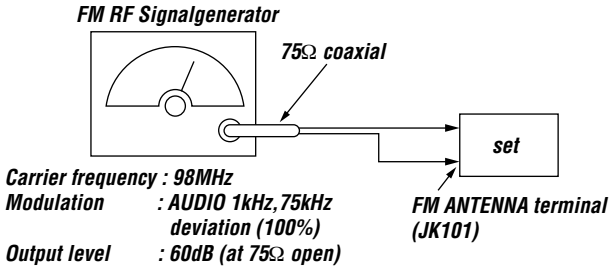


Procedure:

1. Supply a 98 MHz signal at 28 dB from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV101 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Null Adjustment



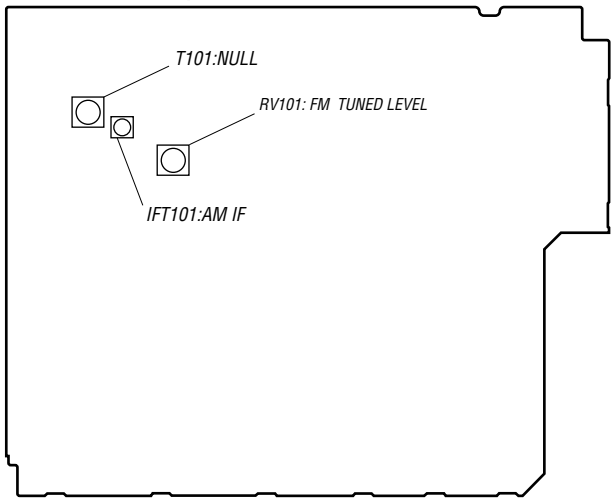
Procedure:

1. Supply a 98 MHz signal at 60 dB from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Measure voltage between pin 21 and pin 23 of IC 101. Adjust T101 ubtil the voltage becomes 0 V.

Adjustment Location: MAIN board

Adjustment Location:

【MAIN BOARD】 Component side

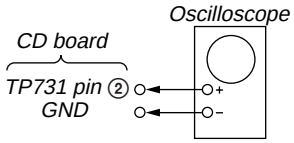


CD SECTION

Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

RF Level Check

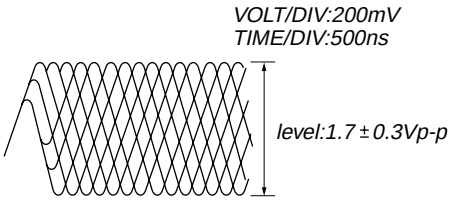


Procedure:

1. Connect oscilloscope to TP731 pin ②.
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback, the number five track.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

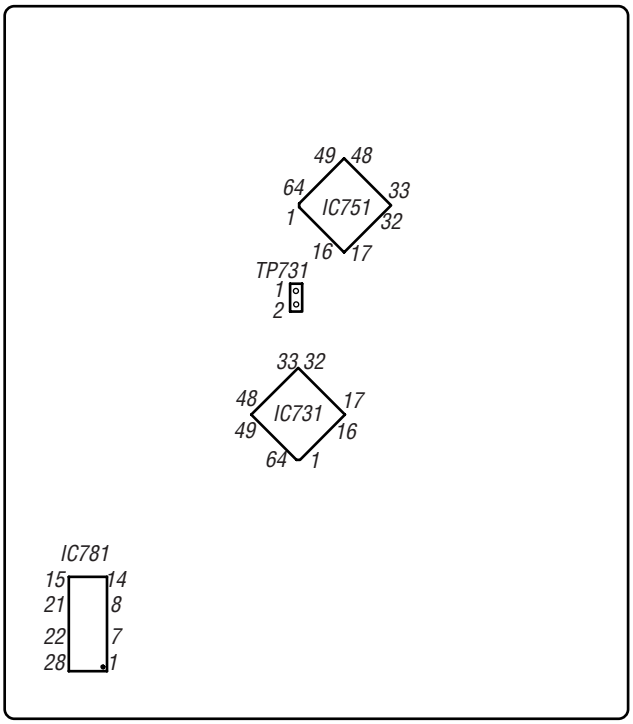
Note: Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

RF signal waveform



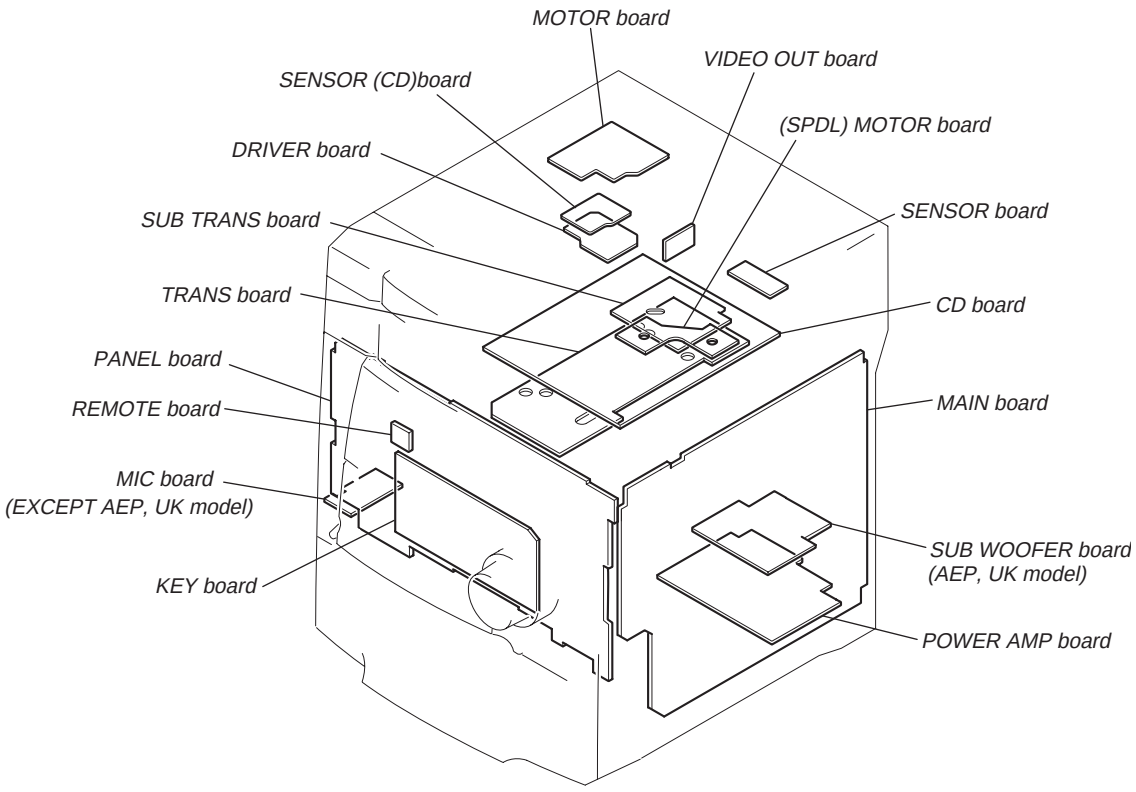
Adjustment Location:

- CD BOARD (Conductor Side) -



SECTION 6
DIAGRAMS

6-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- ∆ : internal component.
- ▭ : panel designation.

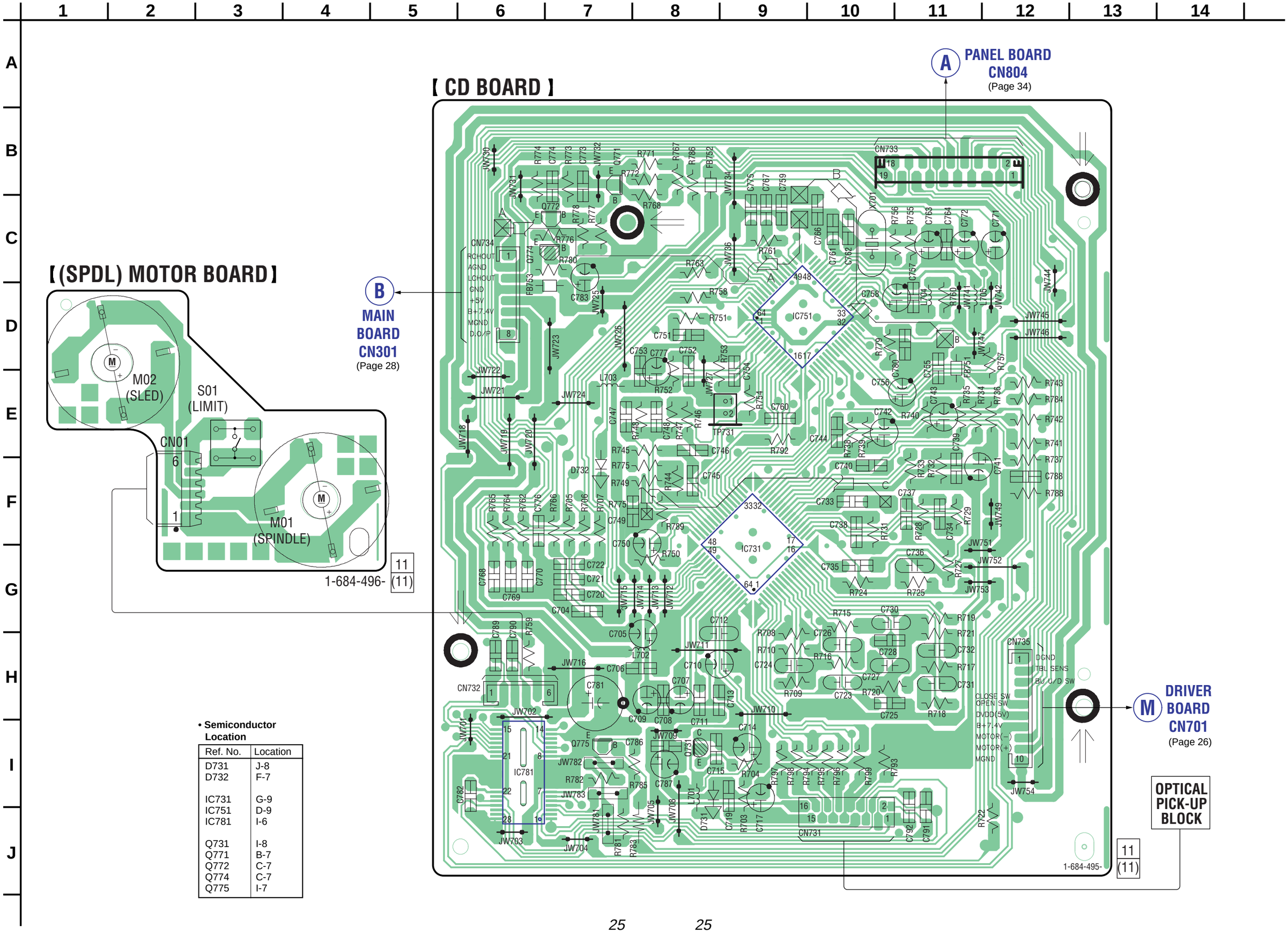
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
  no mark : FM
  ( ) : CD
  [ ] : TAPE
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ▷ : PB (DECK A)
  ▷ : PB (DECK B)
  ▷» : REC (DECK B)
  ⇨ : CD
  ⇨» : digital out
- Abbreviation
  CND : Canadian model
  AUS : Australian model
  SP : Singapore model
  KR : Korea model
  MX : Mexican model
  AR : Argentina model
  TH : Thai model

for printed wiring boards:

- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ▬ : Pattern from the side which enables seeing.
  (The other layer's patterns are not indicated.)
- Abbreviation
  AUS : Australian model
  SP : Singapore model
  KR : Korea model
  MX : Mexican model
  AR : Argentina model
  E2 : Central and South America model
  E51 : Chiri and Peruvian model

6-2. PRINTED WIRING BOARDS — CD SECTION (1/2) — • Refer to page 23 for Circuit Boards Location.

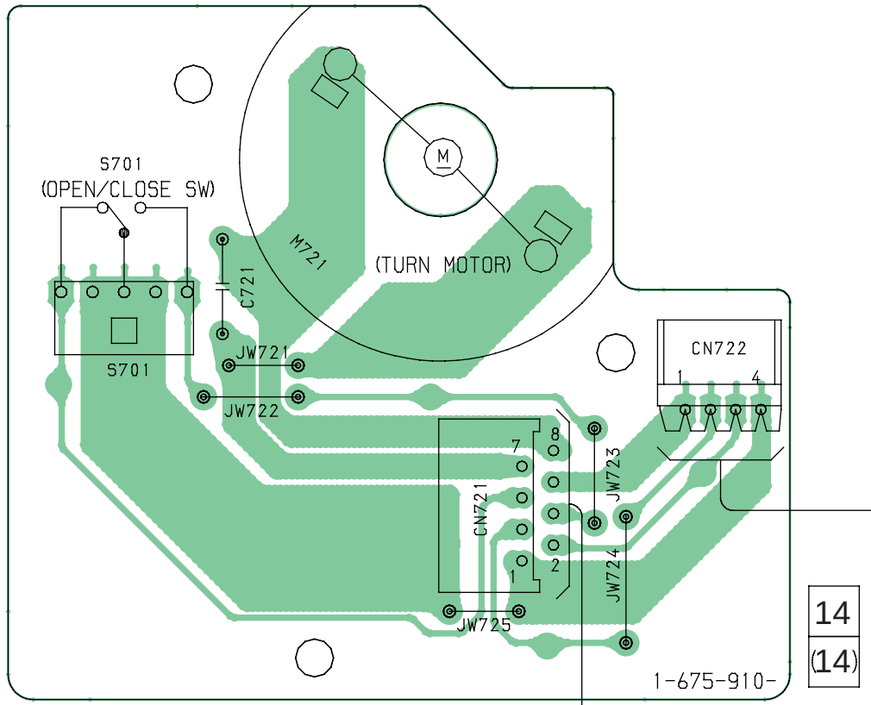


• **Semiconductor Location**

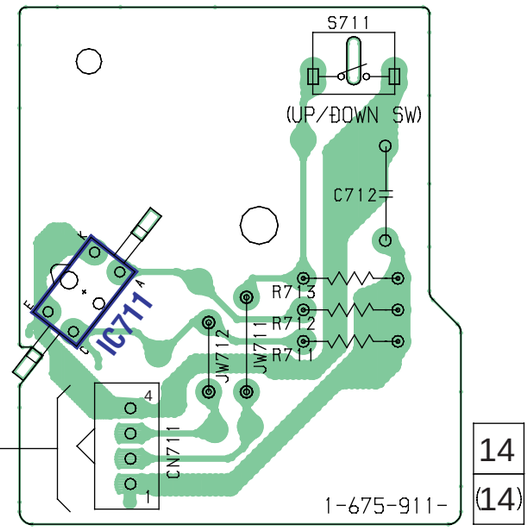
Ref. No.	Location
D731	J-8
D732	F-7
IC731	G-9
IC751	D-9
IC781	I-6
Q731	I-8
Q771	B-7
Q772	C-7
Q774	C-7
Q775	I-7

6-3. PRINTED WIRING BOARDS — CD SECTION (2/2) — • Refer to page 23 for Circuit Boards Location.

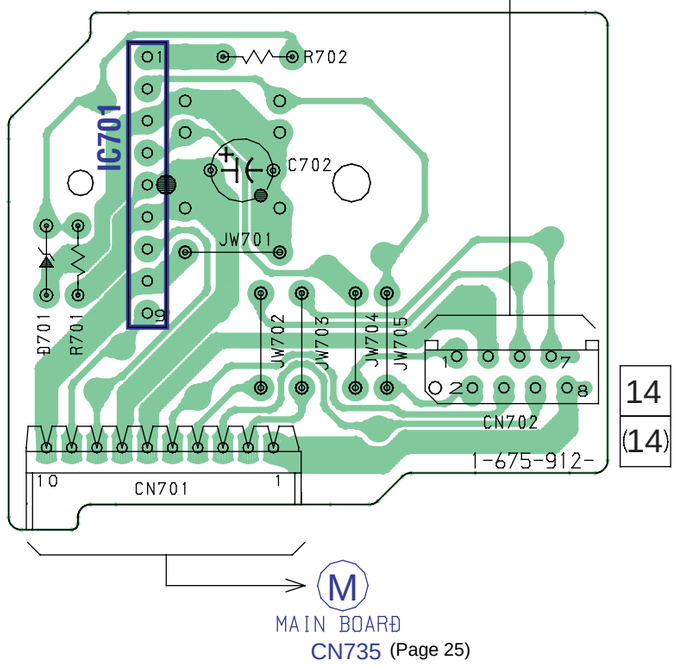
【MOTOR BOARD】



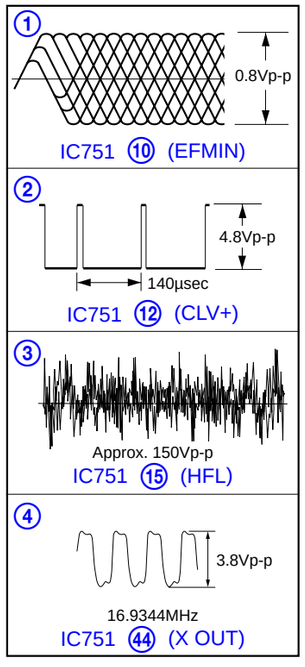
【SENSOR (CD) BOARD】



【DRIVER BOARD】



• **Waveforms (CD Board)**



6-4. SCHEMATIC DIAGRAM — CD SECTION —

• Refer to page 26 for Waveforms.
• Refer to page 44 for IC Block Diagrams.

【CD BOARD】

【OPTICAL PICK-UP BLOCK】

IC731 IC731 LA9242M RF AMP,DIGITAL SERVO

IC751 IC751 LC78622NE DIGITAL SIGNAL PROCESSOR

IC781 BA6898FP IC B/D FOCUS/TRACKING COIL DRIVE, SLED/SPINDLE MOTOT DRIVE

【SPDL) MOTER BOARD】

【SENSOR (CD) BOARD】 IC711 RPI-321 TBL ADDRESS SENSOR

【MOTOR BOARD 】 S701 SLIDE OPEN/CLOSE M721 SLIDE OPEN/CLOSE

【DRIVER BOARD】 IC701 BA6956AN SLIDE MOTOR DRIVE IC B/D

(A) PANEL BOARD CN804 (Page 35)

(B) MAIN (4/4) BOARD CN301 (Page 33)

6-5. PRINTED WIRING BOARD — MAIN SECTION —

• Refer to page 29 for Semiconductor Location.
• Refer to page 23 for Circuit Boards Location.

【 MAIN BOARD 】

B CD BOARD CN734 (Page 25)
F PANEL BOARD CN803 (Page 34)
E PANEL BOARD CN801 (Page 34)
D POWER AMP BOARD CN503 (Page 40)
C POWER AMP BOARD CN502 (Page 40)
G SUB WOOFER BOARD CN509 (Page 38)

PH671 CD DIGITAL OUT OPTICAL

JK101 ANTENNA
E,AUS MODEL: FM 75Ω COAXIAL
AEP,UK MODEL: FM 75Ω
AM

AEP,UK MODEL
CN311 SUB WOOFER CONTROL

JK301 MD(VIDEO) IN
R
L

AEP,UK MODEL
JK303 SUB WOOFER OUT IMPEDANNCE USE 12-16Ω

FAN961

JK302 SPEAKER IMPEDANCE USE 6-16Ω
(L-CH)
(R-CH)

TAPE DECK BLOCK SUPPLIED WITH THE ASSEMBLED BLOCK

* CN203: AEP,UK MODEL
CN201: EXCEPT AEP,UK MODEL

A DECK PLAYBACK
R-CH
L-CH

B DECK RECORD/PLAYBACK/ERASE
R-CH
L-CH
ERASE

* JW8,9: EXCEPT AEP,UK MODEL

1-684-492-11

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	D-12	Q101	C-10
D107	E-10	Q102	B-11
D108	C-9	Q103	D-10
D109	D-9	Q104	D-10
D203	D-7	Q105	E-10
D204	D-7	Q210	D-7
D205	H-5	Q211	D-8
D301	C-5	Q212	C-7
D361	G-9	Q218	G-4
D362	E-7	Q219	G-4
D371	H-12	Q220	G-3
D372	H-11	Q221	G-4
D374	H-11	Q222	I-5
D375	F-11	Q223	I-4
D383	G-10	Q224	I-4
D601	F-5	Q225	I-5
D602	F-3	Q228	I-5
D631	G-10	Q301	I-7
D681	H-10	Q302	I-7
D682	H-9	Q304	I-6
D683	H-10	Q361	E-6
D684	H-10	Q362	E-6
D685	H-7	Q363	G-11
D686	G-7	Q364	G-10
D687	H-10	Q365	G-10
D688	H-10	Q371	G-12
D689	I-10	Q381	G-11
D690	H-10	Q382	G-11
D691	G-7	Q383	G-11
D692	G-7	Q384	G-12
D693	F-3	Q385	G-11
		Q386	F-10
IC101	D-11	Q387	F-10
IC102	B-10	Q389	F-11
IC103	E-10	Q601	F-5
IC201	G-4	Q602	F-5
IC301	D-6	Q603	F-4
IC302	D-4	Q604	F-3
IC304	C-4	Q605	F-4
IC601	D-3	Q606	F-4
IC681	C-8	Q631	B-6
IC682	H-7	Q632	B-6
IC683	H-8	Q681	D-8
IC684	H-6	Q682	D-8

• VOLTAGE TABLE

• MAIN BOARD (3/4)

IC301 M61519FPD61G (INPUT SELECT, TONE CONTROL VOLUME)

Pin No.	Pin Name	Voltage Variation		
		FM (V)	CD (V)	TAPE (V)
1	REF	4.6		
2	MIC	4.6		
3	INA1	4.6		
4	INB1	4.6		
5	INC1	4.6		
6	IND1	4.6		
7	RECA1/INEX1	4.6		
8	RECB1	4.6		
9	TMI1	4.6		
10	TMO1	4.6		
11	TCA1	4.6		
12	TCB1	4.6		
13	TCC1	4.6		
14	TOUT1	4.6		
15	VOLIN1	4.6		
16	BB A1	4.6		
17	BB B1	4.6		
18	OUT1	4.6		
19	SAOUT	4.6		
20	VCC	9.1		
21	DATA	0		
22	CLOCK	0		
23	GND	0		
24	SW OUT	4.6		
25	OUT2	4.6		
26	BB B2	4.6		
27	BB A2	4.6		
28	VOLIN2	4.6		
29	TOUT2	4.6		
30	TCC2	4.6		
31	TCB2	4.6		
32	TCA2	4.6		
33	TMO2	4.6		
34	TMI2	4.6		
35	RECB2	4.6		
36	RECA2/INEX2	4.6		
37	IND2	4.6		
38	INC2	4.6		
39	INB2	4.6		
40	INA2	4.6		
41	SUR2/DPL2	4.6		
42	SUR1/DPL1	4.6		

6-6. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) — • Refer to page 44 for IC Block Diagrams.

【MAIN BOARD】(1/4)

* C131,132,147
0.015 (EXCEPT AEP,UK MODEL)
0.022 (AEP,UK MODEL)

* R131
10k (AEP,UK MODEL)
22k (EXCEPT AEP,UK MODEL)

* R133,134
470 (AEP,UK MODEL)
1k (EXCEPT AEP,UK MODEL)

* R128,129
1.2k (EXCEPT AEP,UK MODEL)
22k (AEP,UK MODEL)

* R143,144
4.7k (AEP,UK MODEL)
220k (EXCEPT AEP,UK MODEL)

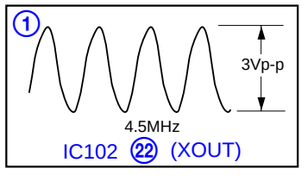
* R138
100 (EXCEPT AEP,UK MODEL)
10k (AEP,UK MODEL)

* R124,141
220 (AEP,UK MODEL)
270 (EXCEPT AEP,UK MODEL)

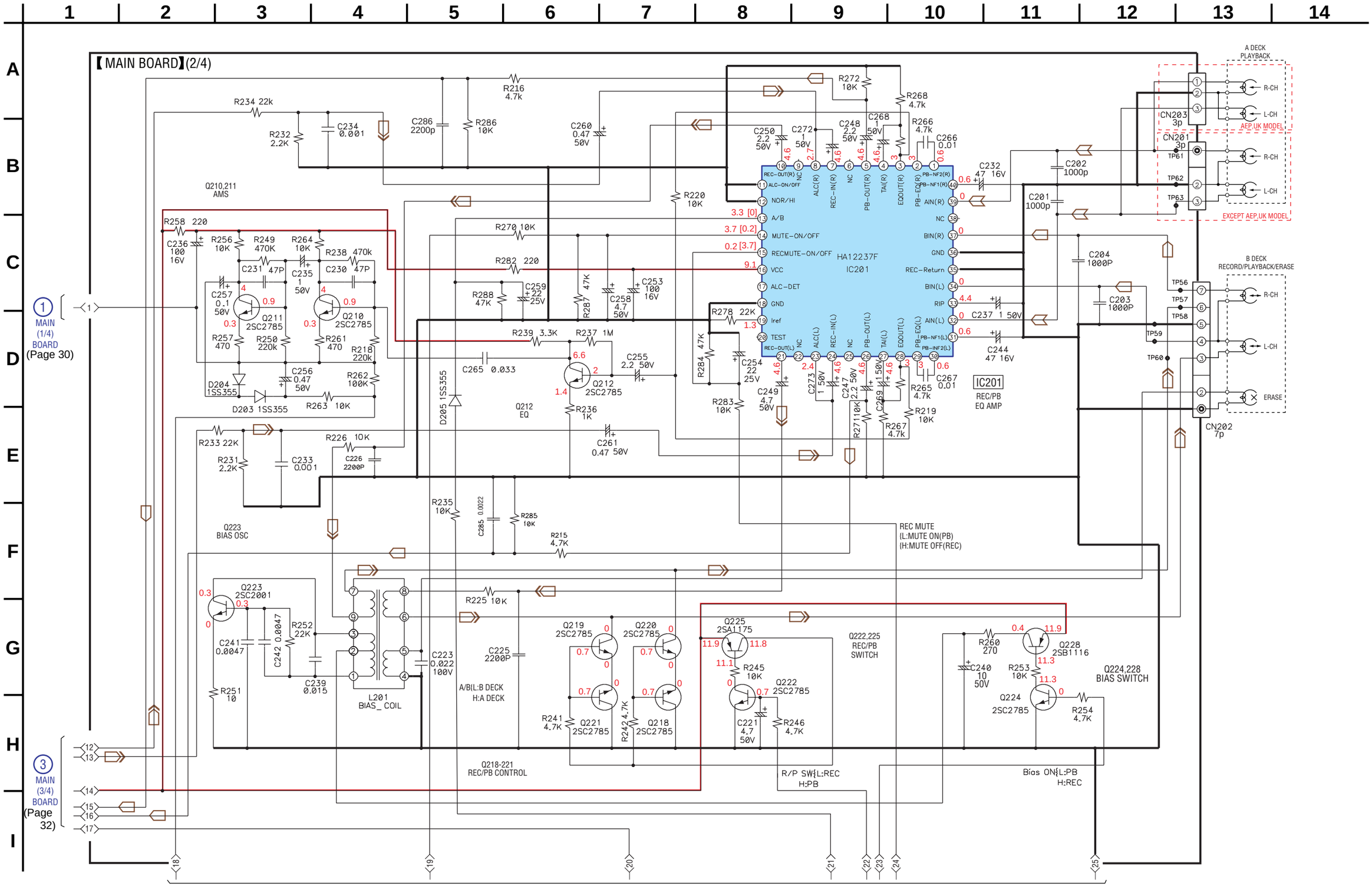
1 MAIN (2/4) BOARD (Page 31)

2 MAIN (3/4)BOARD (Page 32)

• **Waveforms**



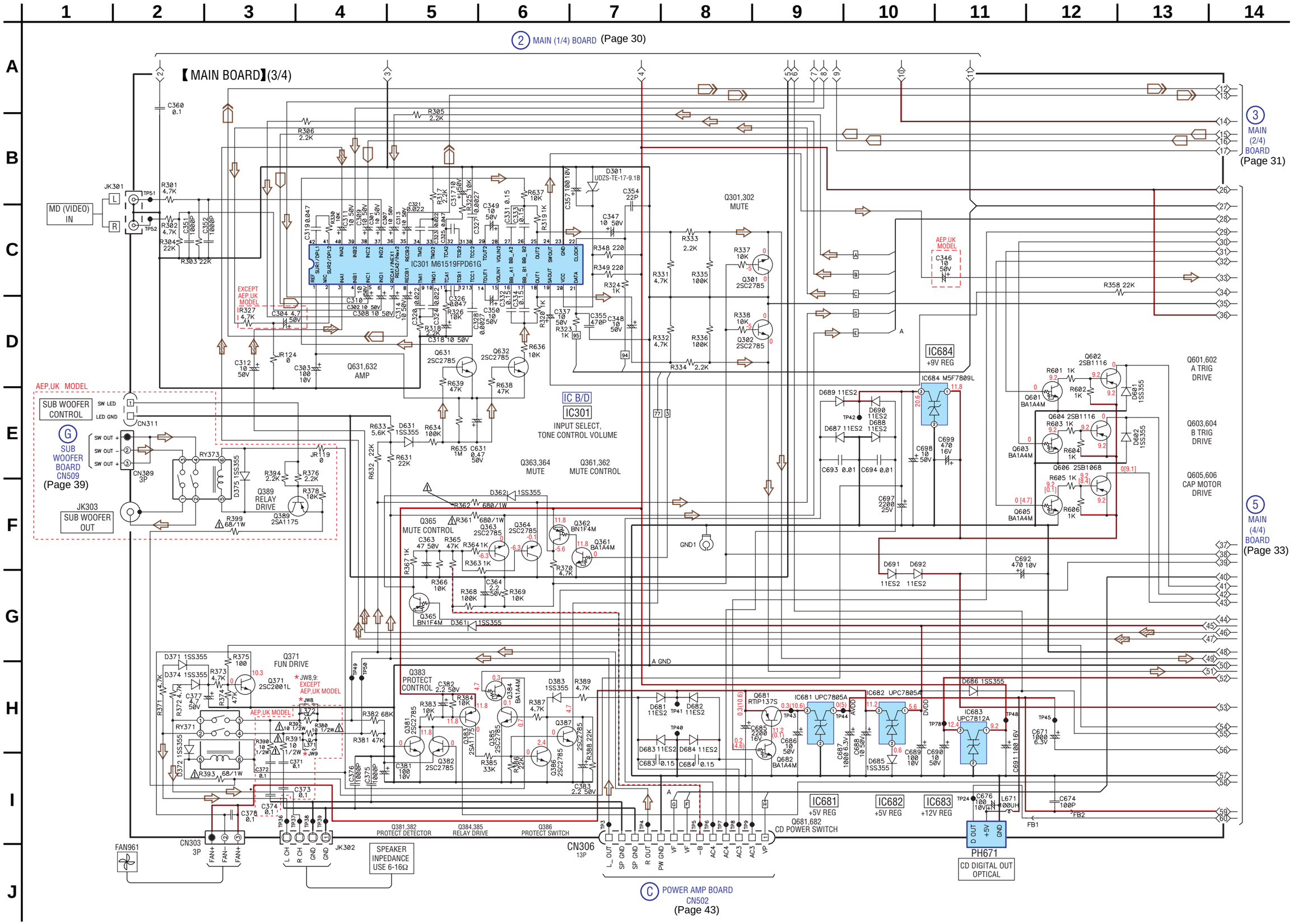
6-7. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) —



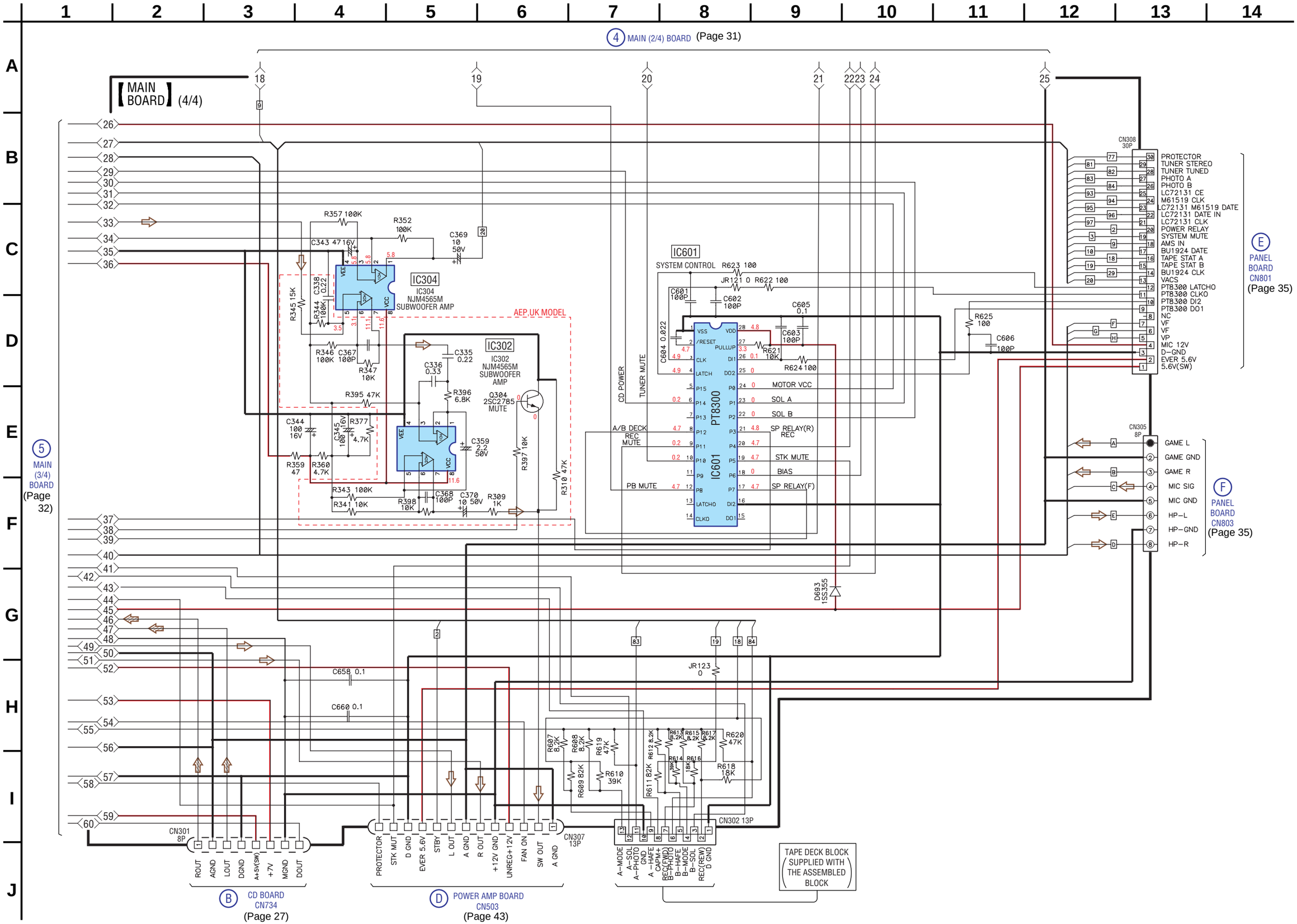
• Refer to page 29 for Voltage table of IC301.

6-8. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) —

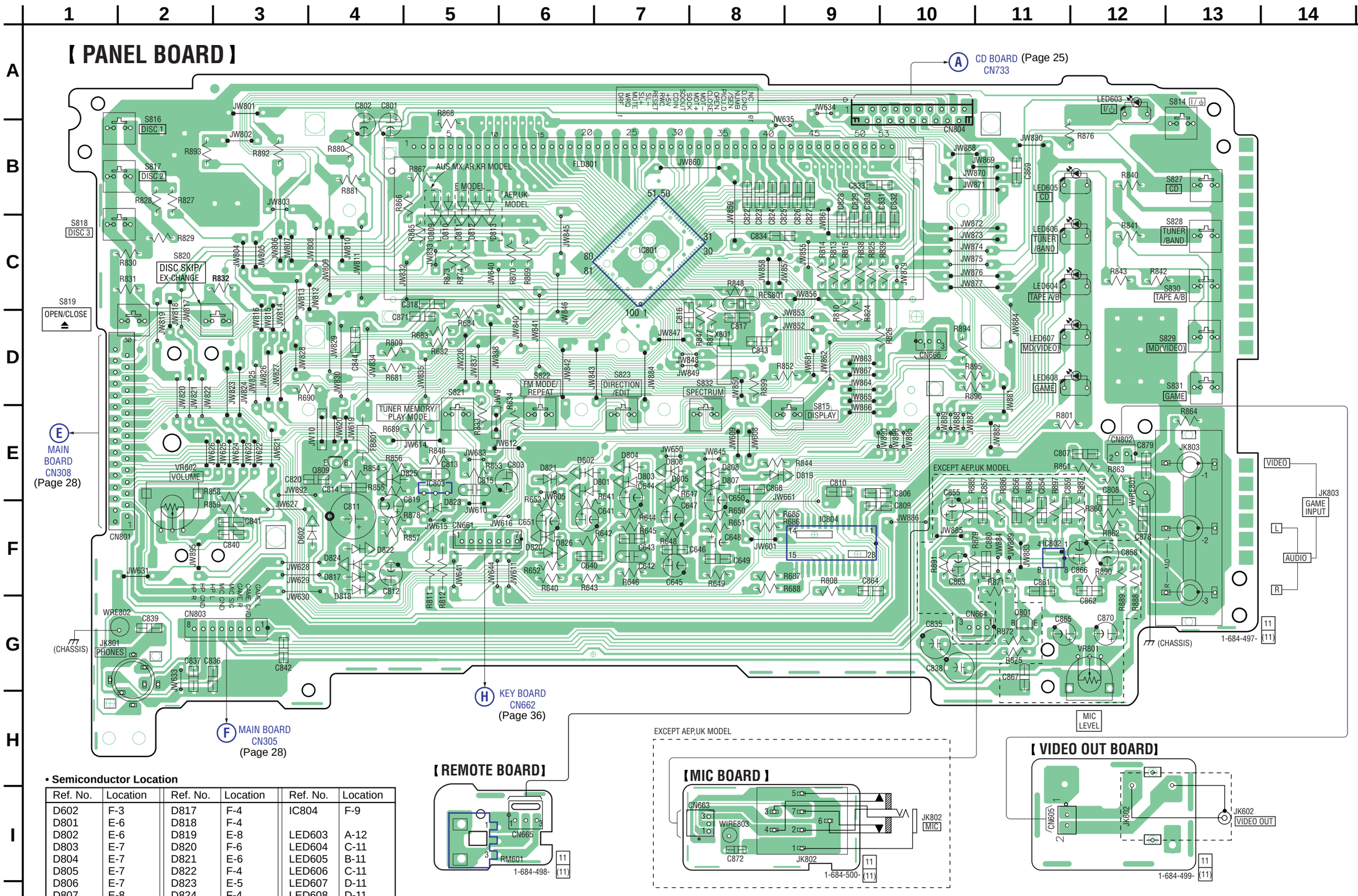
• Refer to page 45 for IC Block Diagram.



6-9. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) —



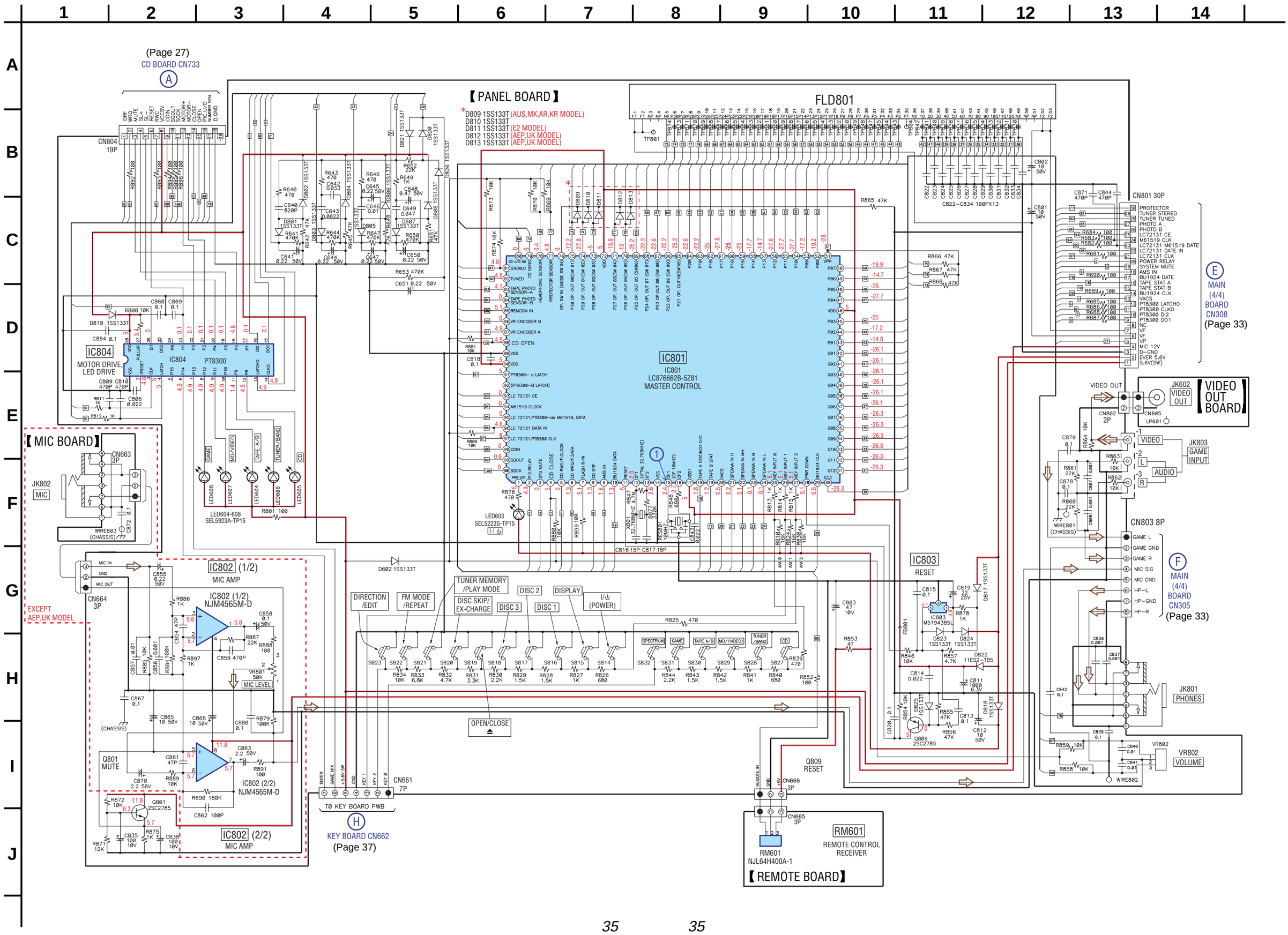
6-10. PRINTED WIRING BOARDS — PANEL SECTION — • Refer to page 23 for Circuit Boards Location.



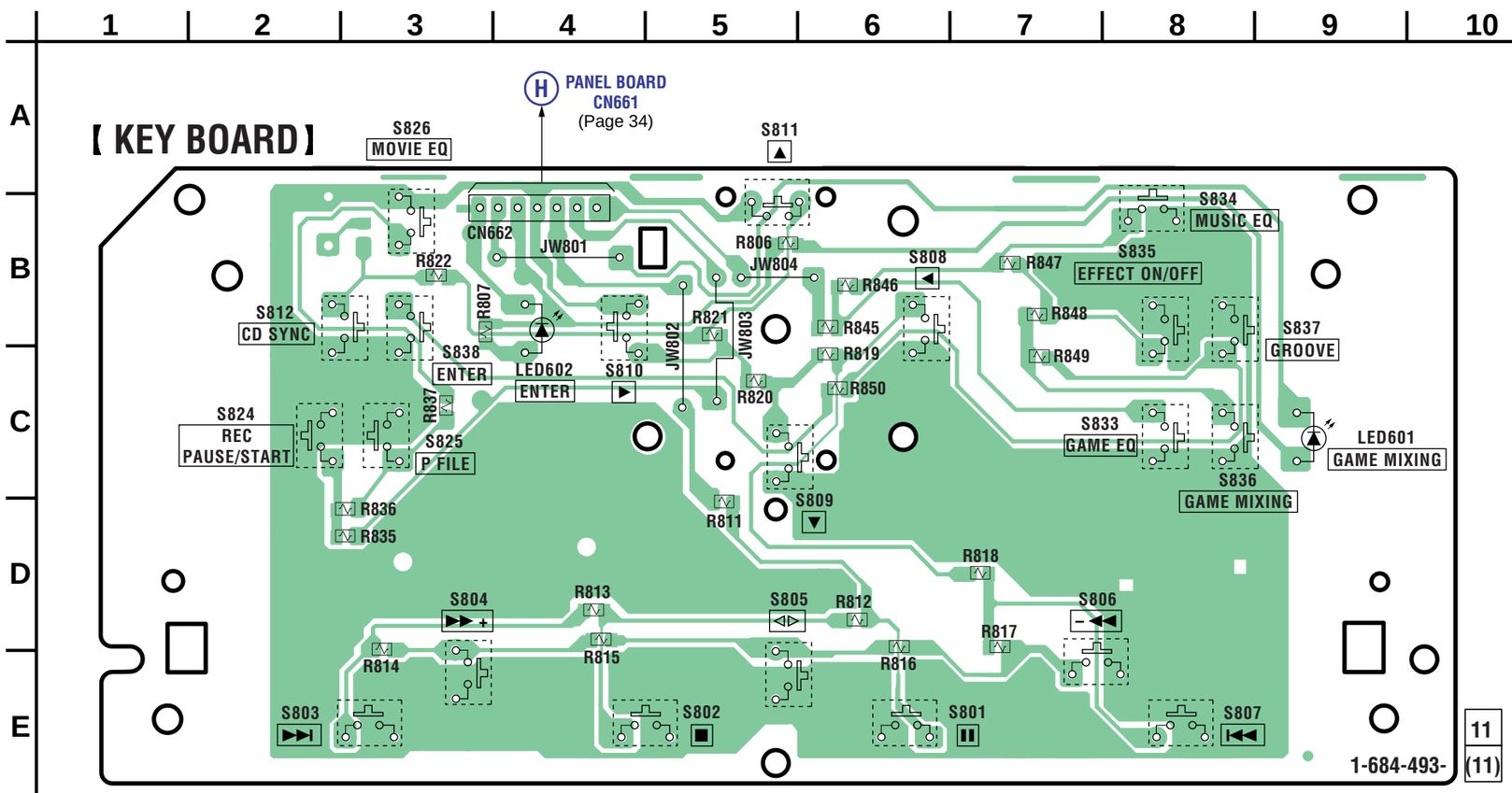
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D602	F-3	D817	F-4	IC804	F-9
D801	E-6	D818	F-4		
D802	E-6	D819	E-8	LED603	A-12
D803	E-7	D820	F-6	LED604	C-11
D804	E-7	D821	E-6	LED605	B-11
D805	E-7	D822	F-4	LED606	C-11
D806	E-7	D823	E-5	LED607	D-11
D807	E-8	D824	F-4	LED608	D-11
D808	E-8	D825	E-5		
D809	C-5	D826	F-6	Q801	G-11
D810	C-5			Q809	E-4
D811	C-5	IC801	C-7		
D812	C-5	IC802	F-11	RM601	I-5
D813	C-5	IC803	E-5		

6-11. SCHEMATIC DIAGRAM — PANEL SECTION — • Refer to page 36 for Waveform.



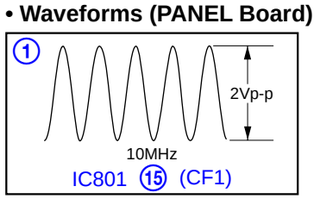
6-12. PRINTED WIRING BOARD — KEY SECTION — • Refer to page 23 for Circuit Boards Location.



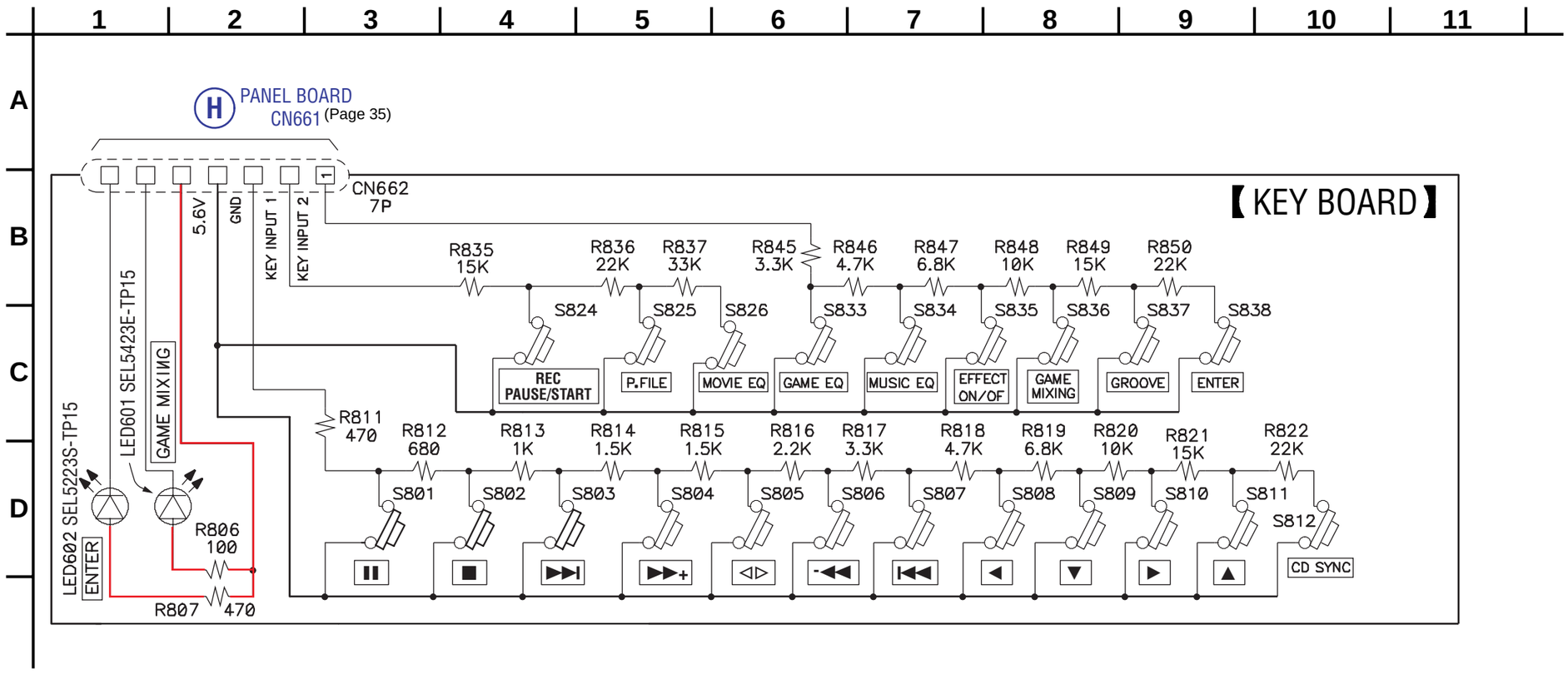
• **Semiconductor Location**

Ref. No.	Location
LED601	C-9
LED602	C-4

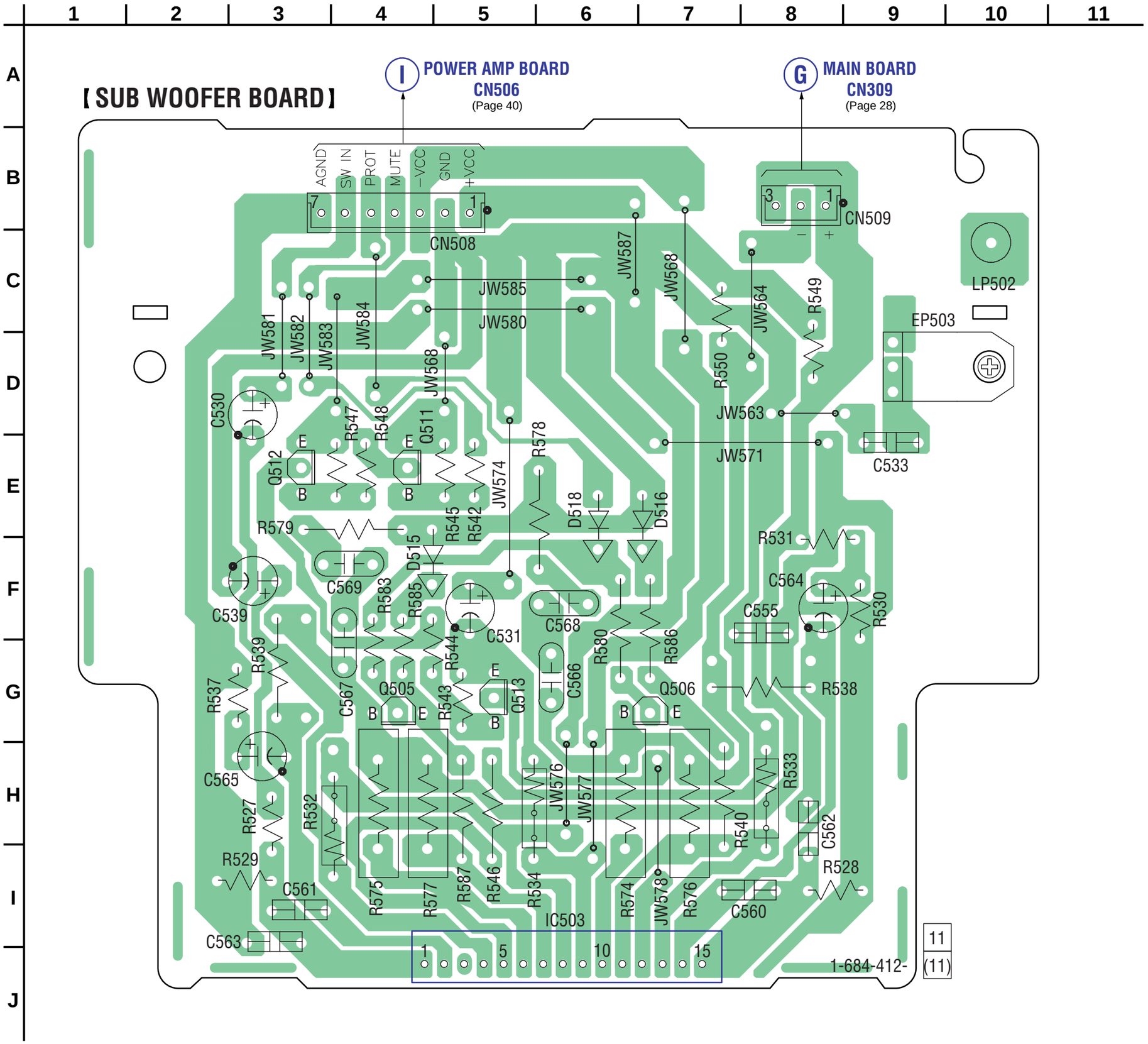
• **Waveforms (PANEL Board)**



6-13. SCHEMATIC DIAGRAM — KEY SECTION —



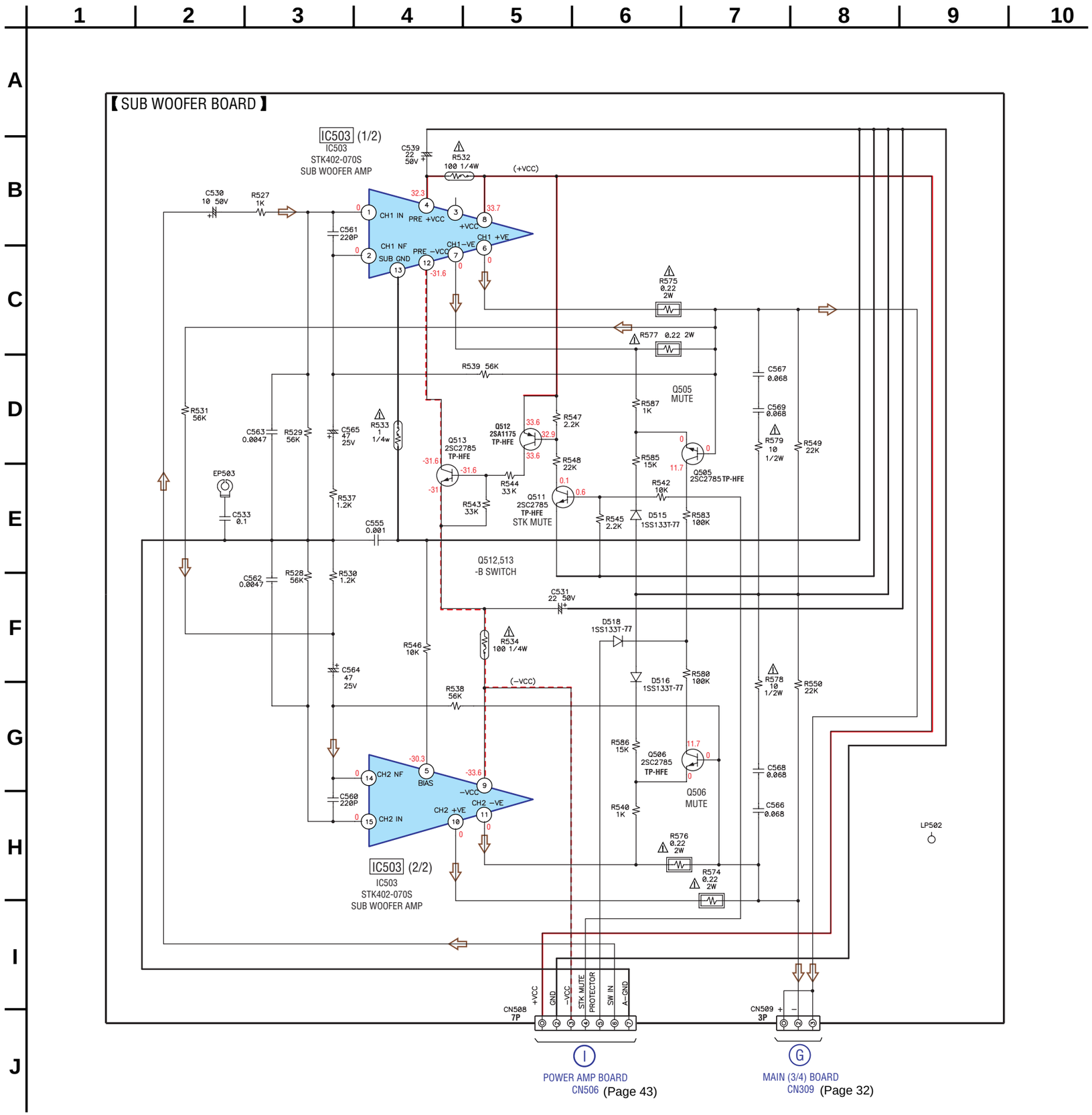
6-14. PRINTED WIRING BOARD — SUB WOOFER SECTION — • Refer to page 23 for Circuit Boards Location.



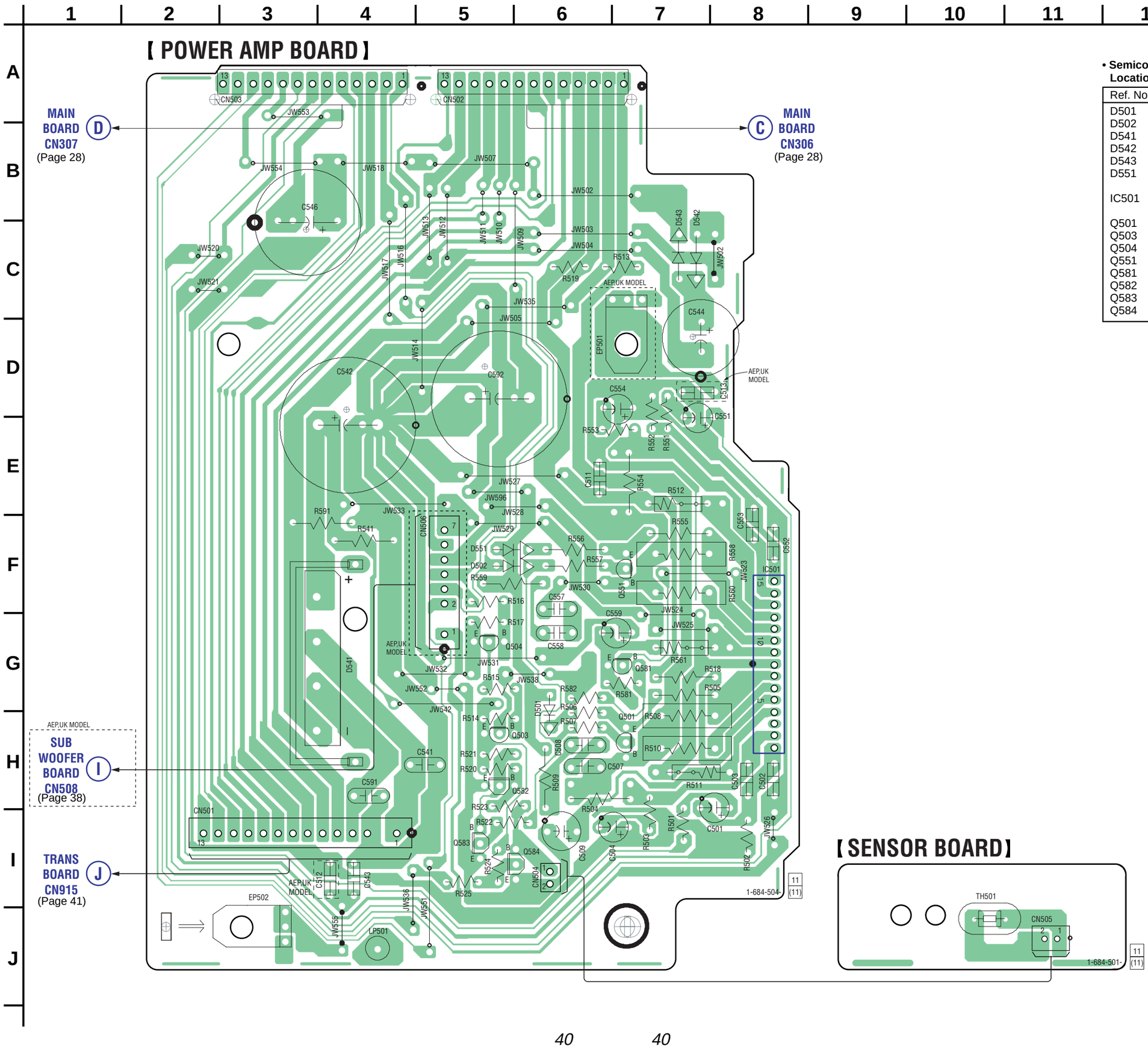
• **Semiconductor Location**

Ref. No.	Location
D515	F-4
D516	E-7
D518	E-6
IC503	I-6
Q505	G-4
Q506	G-7
Q511	E-4
Q512	E-3
Q513	G-5

6-15. SCHEMATIC DIAGRAM — SUB WOOFER SECTION —



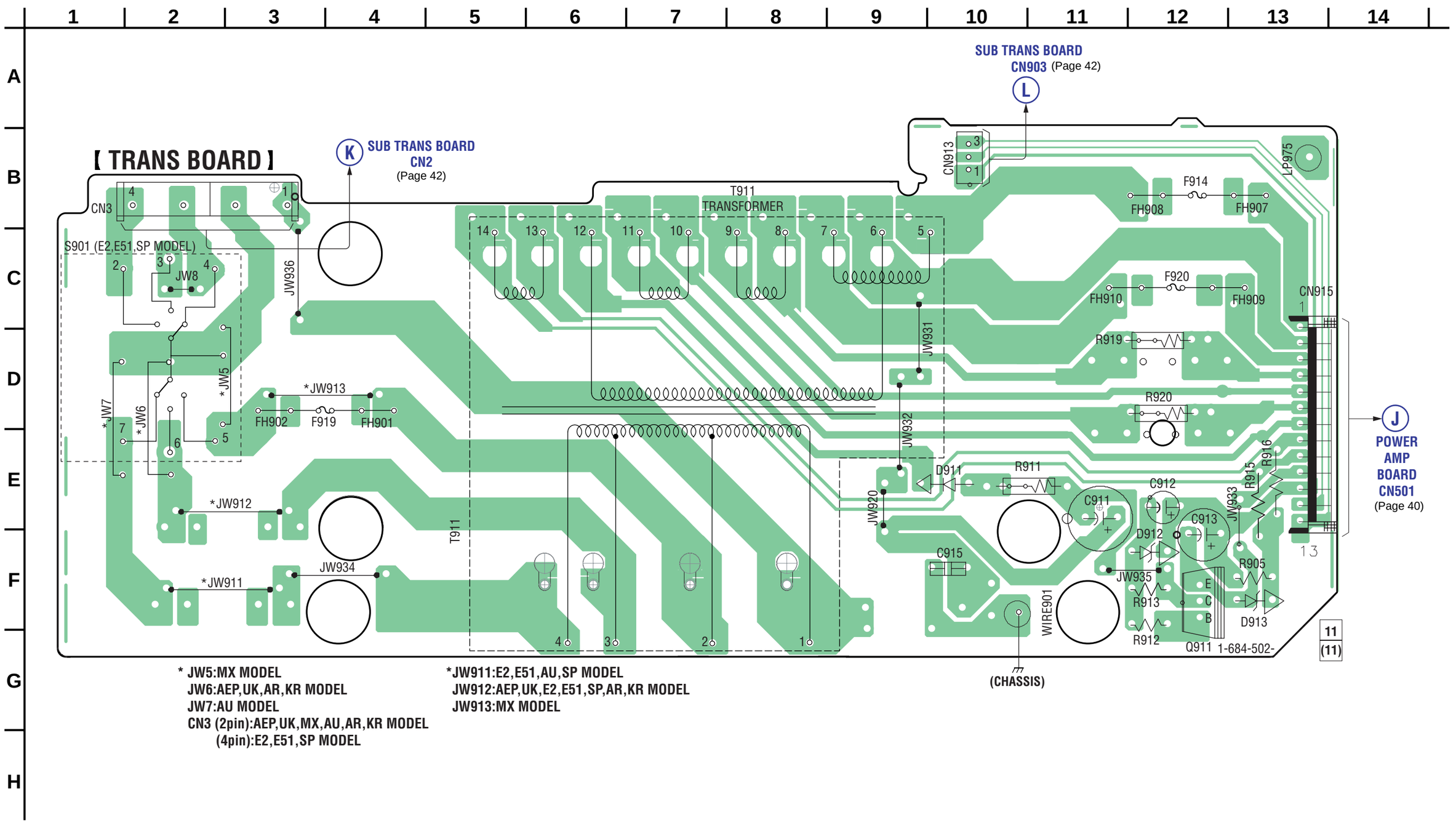
6-16. PRINTED WIRING BOARDS — POWER SECTION (1/3) — • Refer to page 23 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D501	H-6
D502	F-5
D541	G-4
D542	C-7
D543	C-7
D551	F-5
IC501	F-8
Q501	H-7
Q503	H-5
Q504	G-5
Q551	F-7
Q581	G-7
Q582	H-5
Q583	I-5
Q584	I-5

6-17. PRINTED WIRING BOARD — POWER SECTION (2/3) —



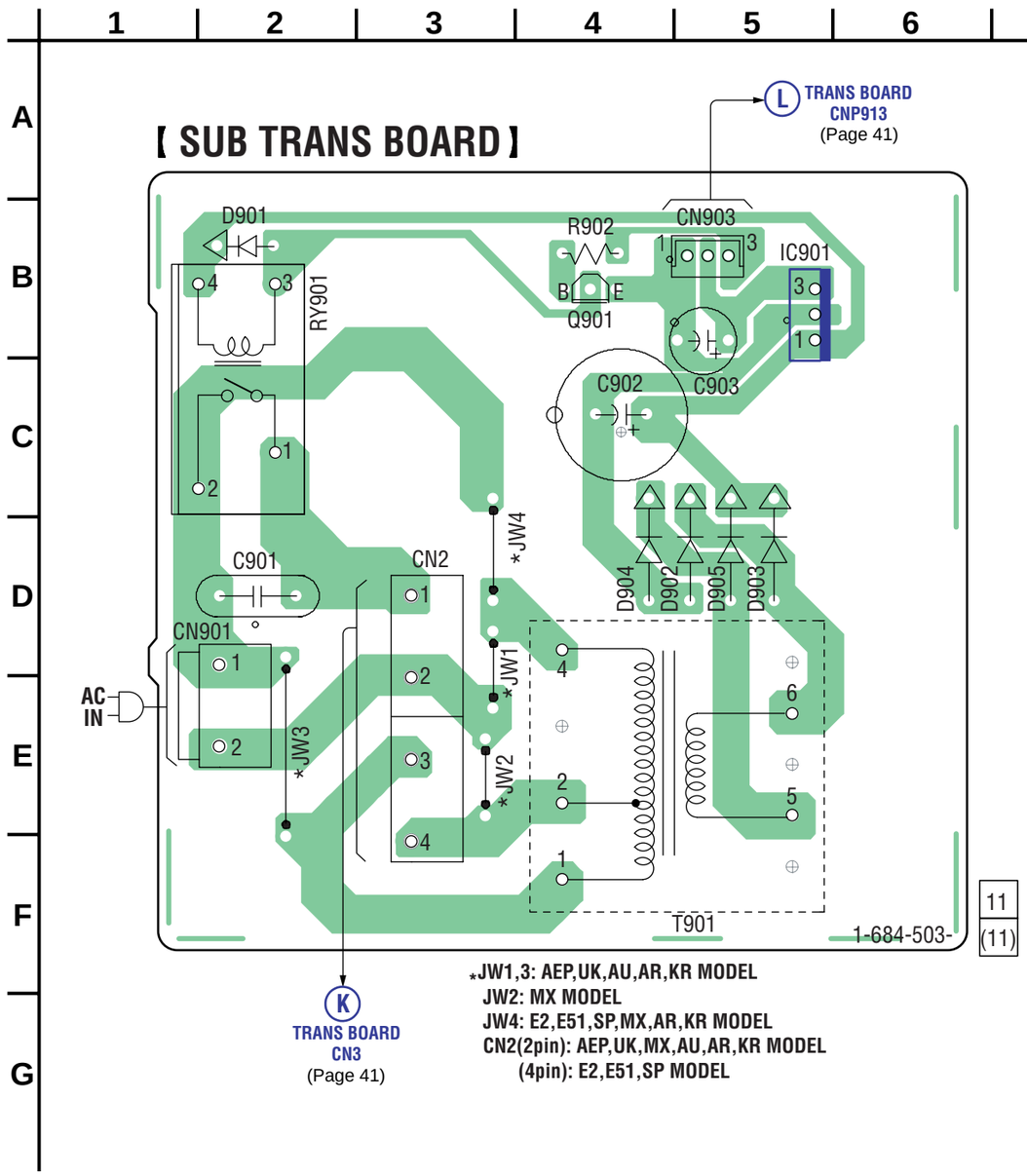
* JW5:MX MODEL
  JW6:AEP,UK,AR,KR MODEL
  JW7:AU MODEL
  CN3 (2pin):AEP,UK,MX,AU,AR,KR MODEL
  (4pin):E2,E51,SP MODEL

*JW911:E2,E51,AU,SP MODEL
JW912:AEP,UK,E2,E51,SP,AR,KR MODEL
JW913:MX MODEL

• **Semiconductor Location**

Ref. No.	Location
D911	E-10
D912	F-12
D913	F-13
Q911	G-12

6-18. PRINTED WIRING BOARD — POWER SECTION (3/3) — • Refer to page 23 for Circuit Boards Location.

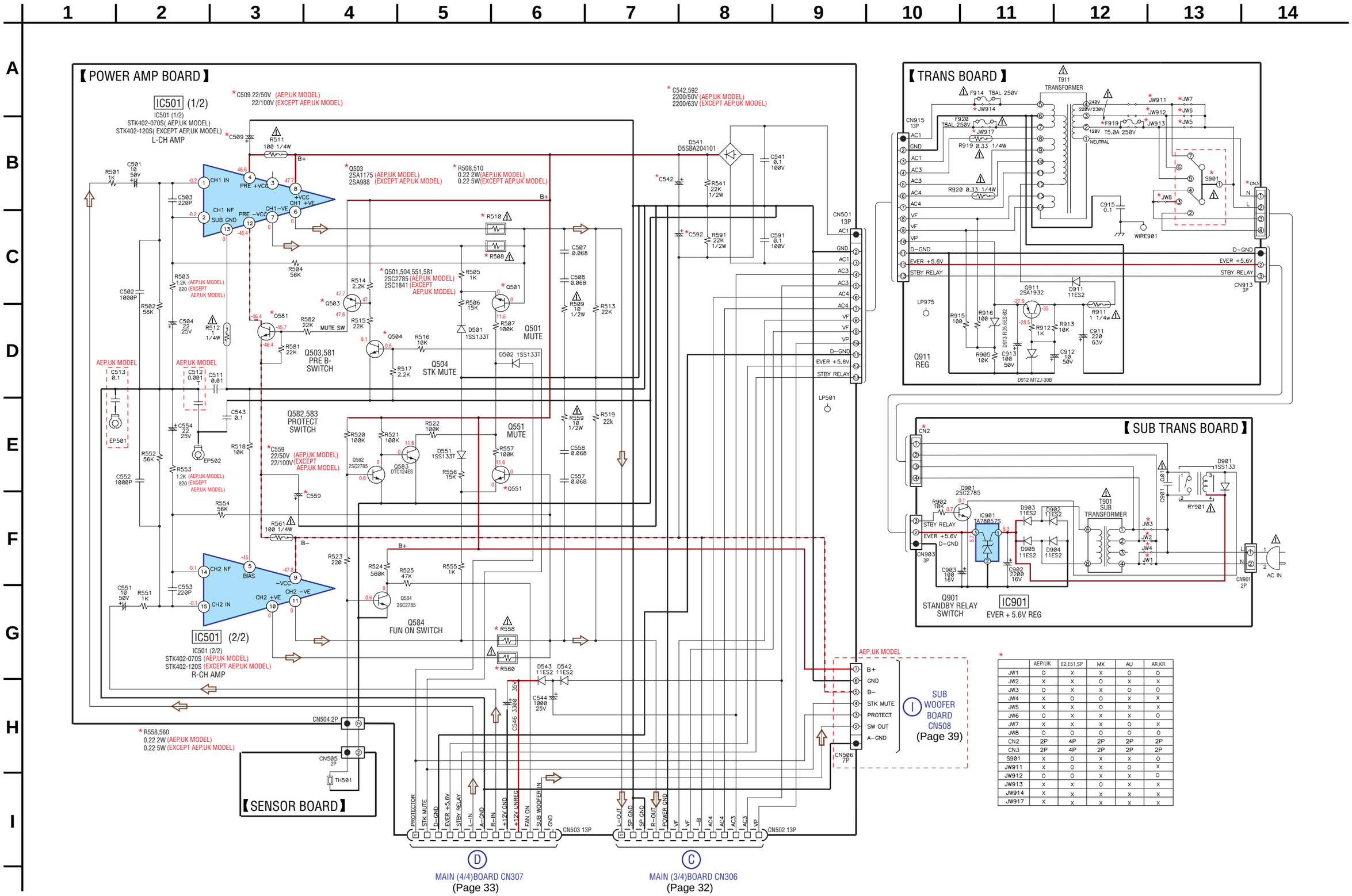


*JW1,3: AEP,UK,AU,AR,KR MODEL
JW2: MX MODEL
JW4: E2,E51,SP,MX,AR,KR MODEL
CN2(2pin): AEP,UK,MX,AU,AR,KR MODEL
(4pin): E2,E51,SP MODEL

• **Semiconductor Location**

Ref. No.	Location
D901	B-2
D902	D-5
D903	D-5
D904	D-4
D905	D-5
IC901	B-5
Q901	B-4

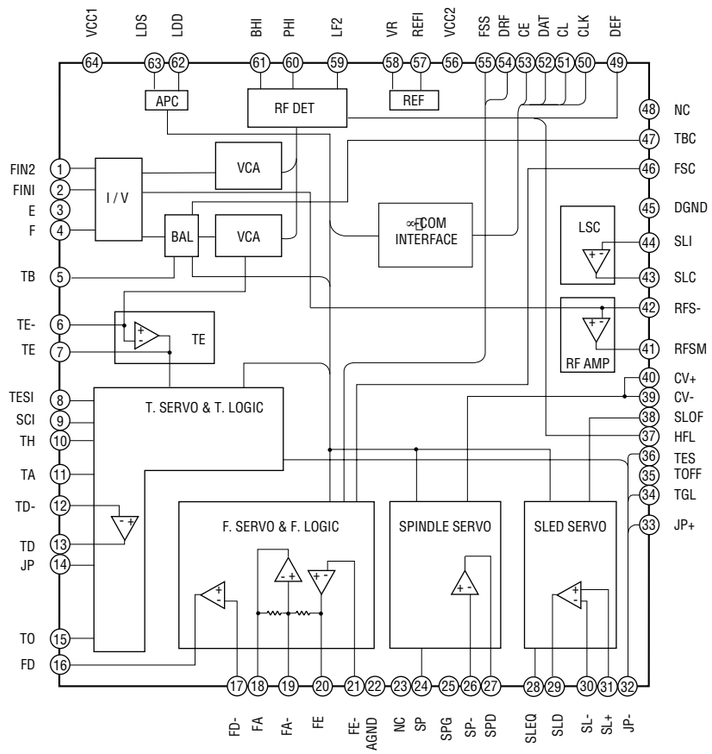
6-19. SCHEMATIC DIAGRAM — POWER SECTION —



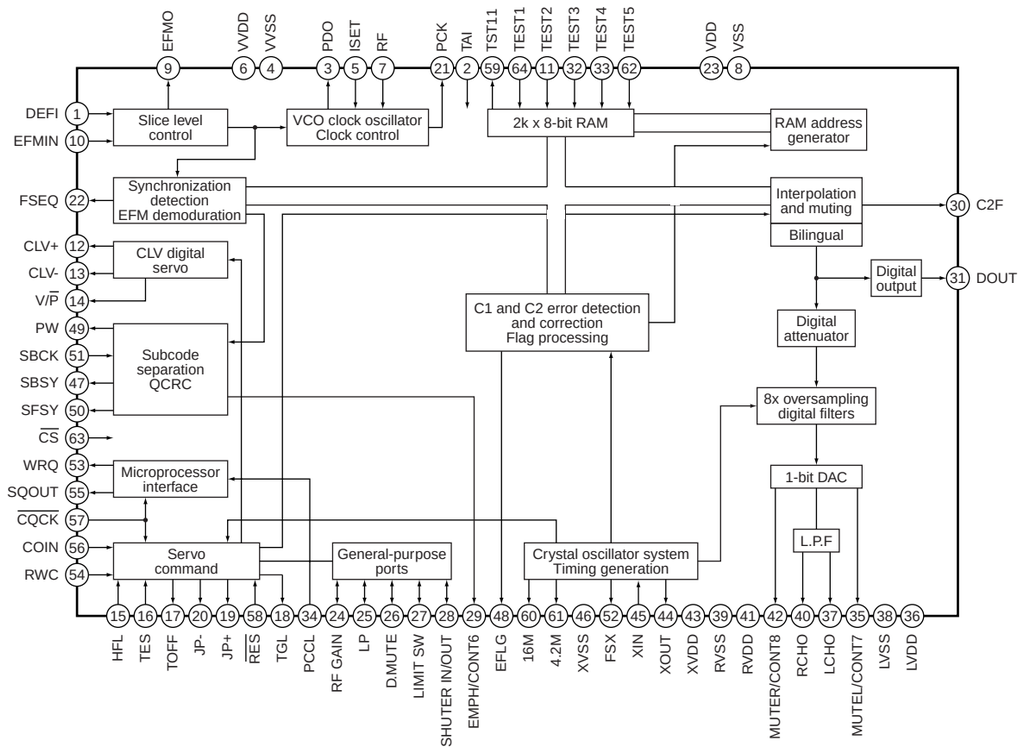
*	AEP/UK	E2,E51,SP	MX	AU	AR,KR
JW1	O	X	X	O	O
JW2	X	X	O	X	X
JW3	O	X	X	O	O
JW4	X	O	O	X	X
JW5	X	X	O	X	X
JW6	O	X	X	X	O
JW7	X	X	X	O	X
JW8	O	O	O	O	O
CN2	2P	4P	2P	2P	2P
CN3	2P	4P	2P	2P	2P
S901	X	O	X	X	O
JW911	X	O	X	O	X
JW912	O	O	X	X	O
JW913	X	X	O	X	X
JW914	X	X	X	X	X
JW917	X	X	X	X	X

• IC BLOCK DIAGRAMS

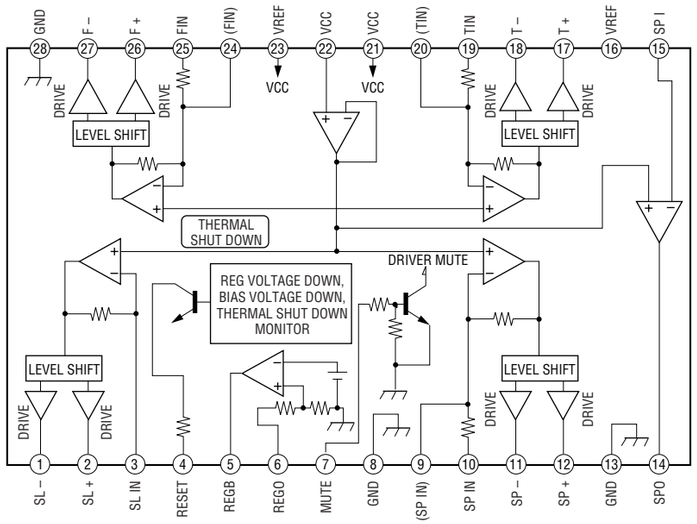
IC731 LA9242M (CD BOARD)



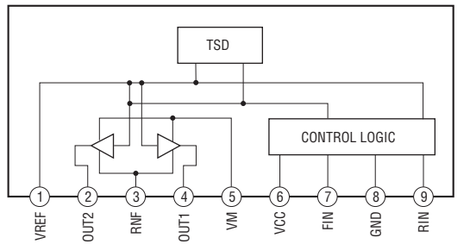
IC751 LC78622NE (CD BOARD)



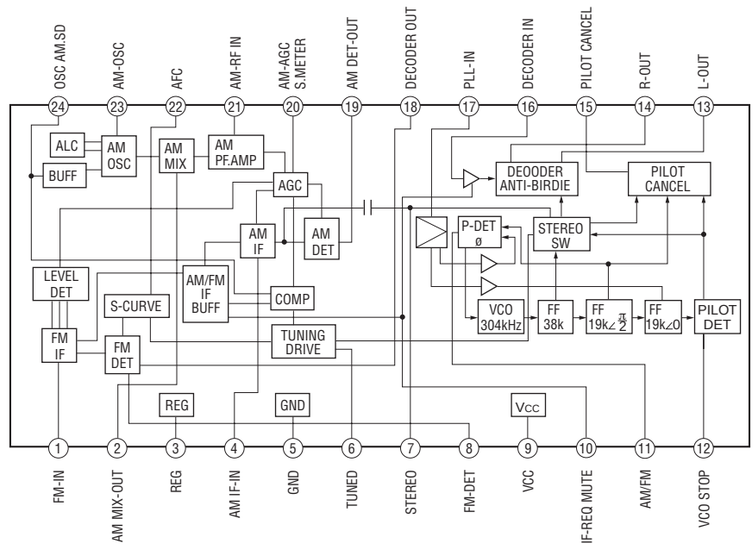
IC781 BA6898FP (CD BOARD)



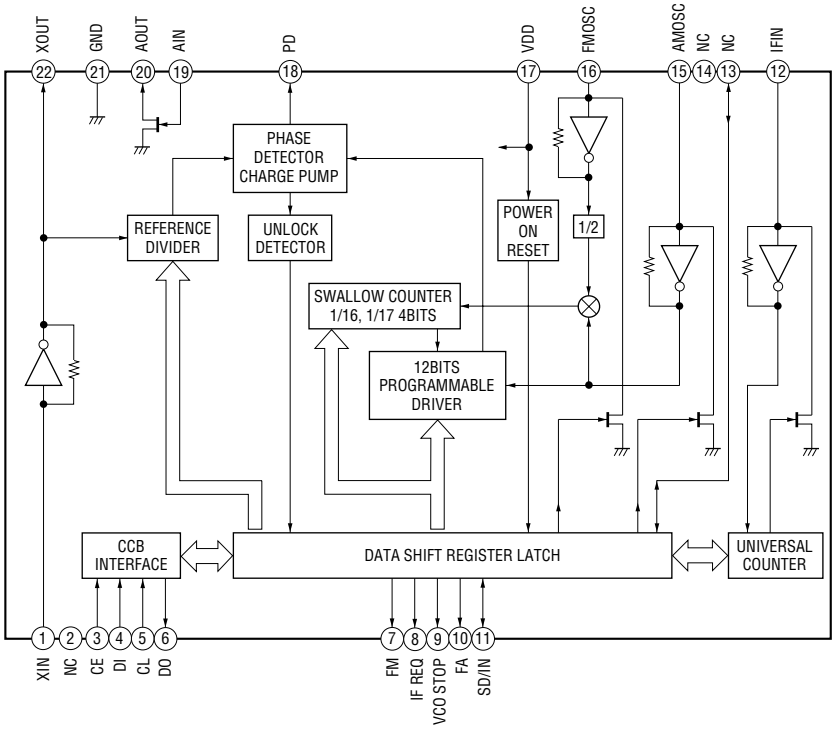
IC701 BA6956AN (DRIVER BOARD)



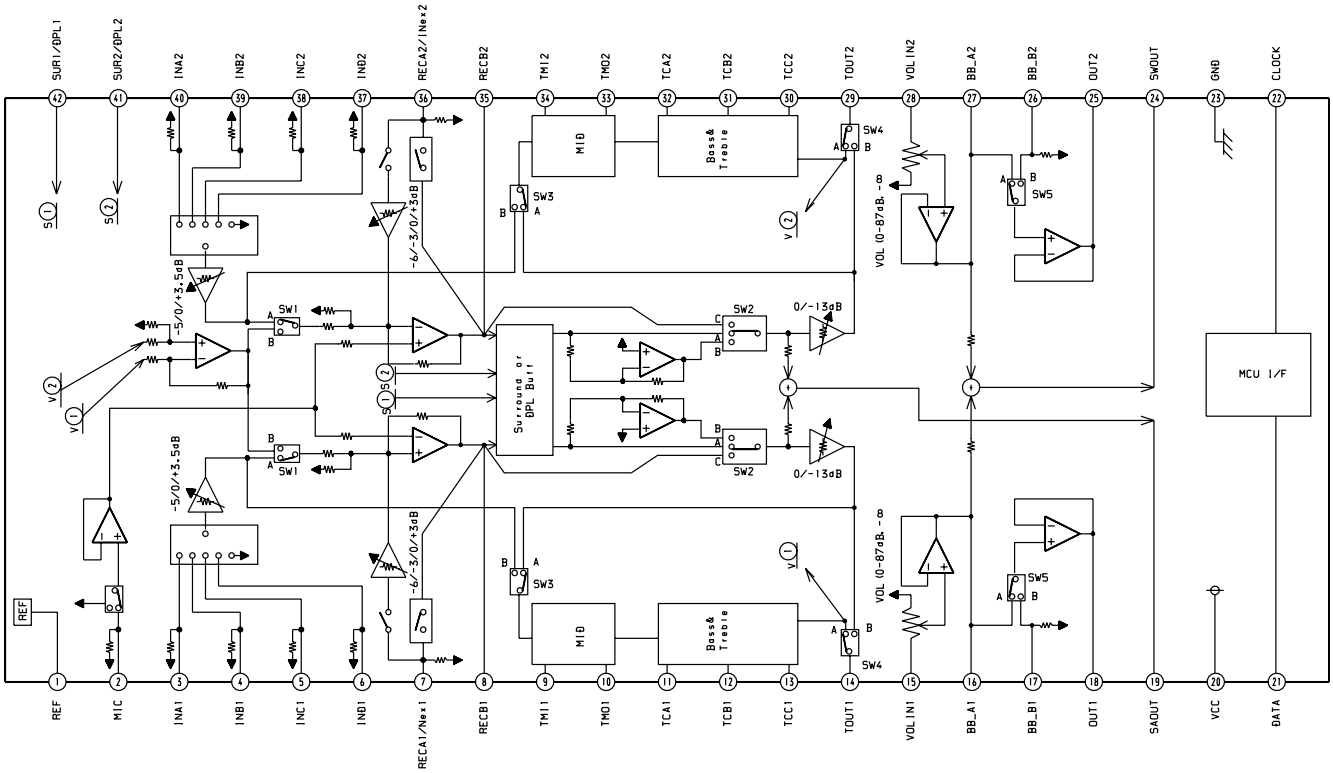
IC101 LA1845 (MAIN BOARD)



IC102 LC72131D (MAIN BOARD)



IC301 M61519FPD61G (MAIN BOARD)

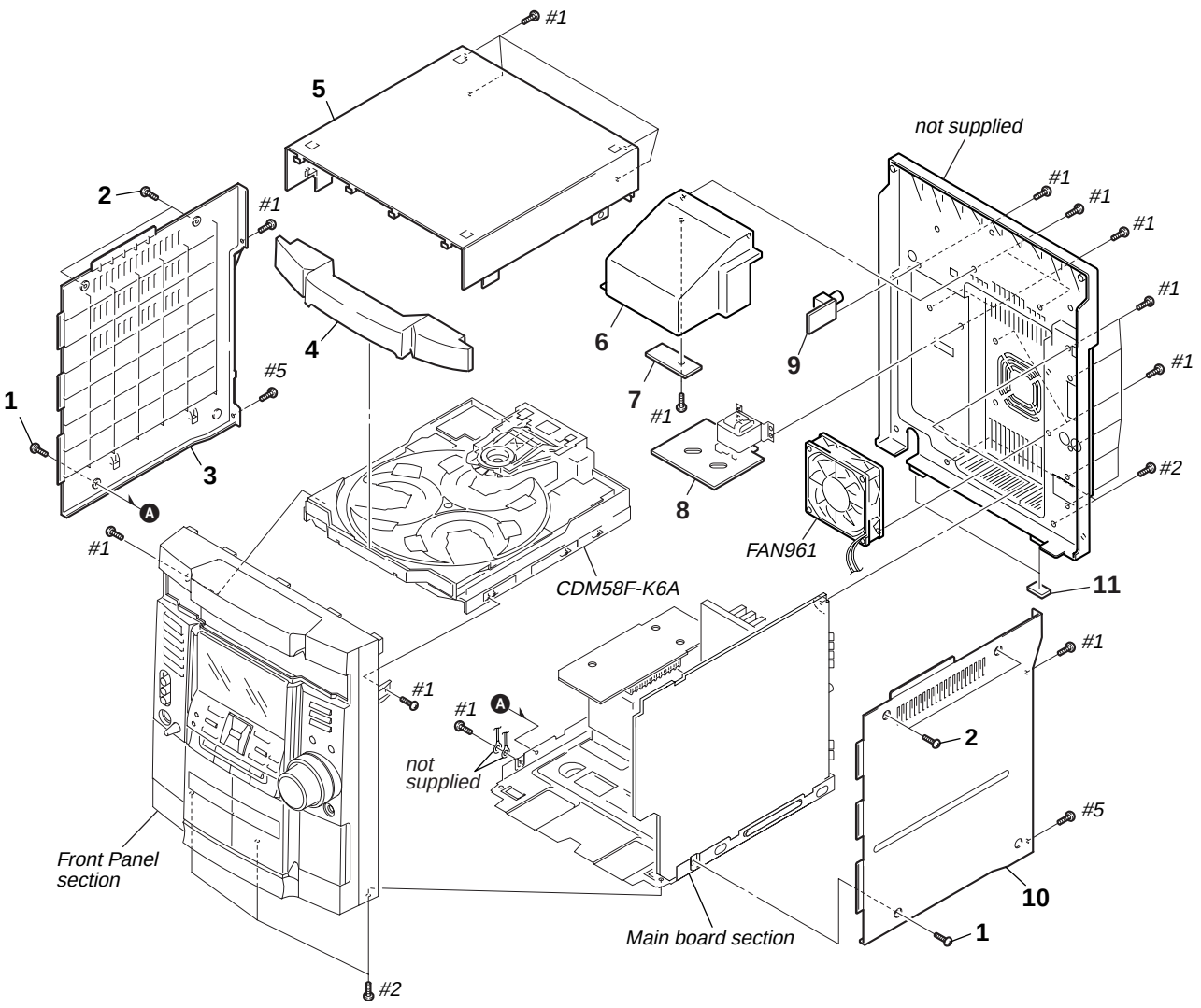


SECTION 7
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Accessories are given in the last of this parts list.
- Abbreviation
  AUS : Australian model
  SP : Singapore model
  KR : Korea model
  MX : Mexican model
  AR : Argentina model
  E2 : Central and South America model
  E51 : Chilean and Peruvian model

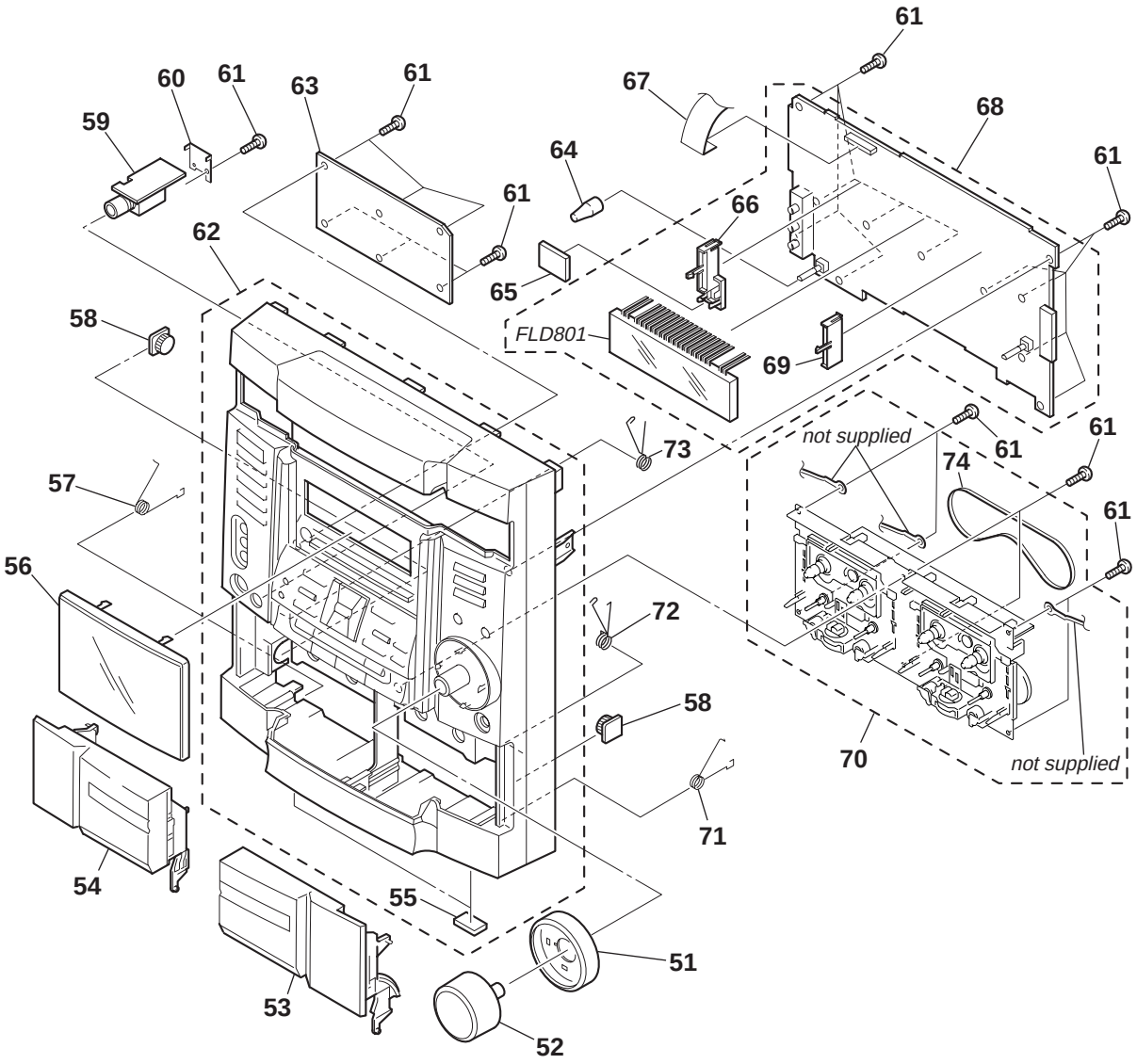
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	3-363-099-01	SCREW (CASE 3 TP2)	
2	3-363-099-41	SCREW (CASE 3 TP2)	
3	4-224-549-01	CASE (SIDE-L) (AEP,UK)	
3	4-224-549-21	CASE (SIDE-L) (EXCEPT AEP,UK)	
4	4-238-616-11	CD (DOOR)	
5	4-224-550-51	CASE (TOP) (AEP,UK)	
5	4-224-550-81	CASE (TOP) (EXCEPT AEP,UK)	
6	4-227-984-01	COVER (DUCT) (EXCEPT AEP)	
6	4-227-984-11	COVER (DUCT) (AEP)	
7	1-684-501-11	SENSOR BOARD (EXCEPT AEP,UK)	
7	1-684-501-21	SENSOR BOARD (AEP,UK)	
8	1-684-503-11	SUB TRANS BOARD (EXCEPT AEP,UK)	
8	1-684-503-21	SUB TRANS BOARD (AEP,UK)	
9	1-684-499-11	VIDEO OUT BOARD (EXCEPT AEP,UK)	
9	1-684-499-21	VIDEO OUT BOARD (AEP,UK)	
10	4-224-548-51	CASE (SIDE-R) (AEP,UK)	
10	4-224-548-61	CASE (SIDE-R) (EXCEPT AEP,UK)	
11	4-233-980-01	FOOT, RUBBER	
FAN961	1-763-738-21	FAN, DC	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#5	7-685-872-09	SCREW +BVTT 3X8 (S)	

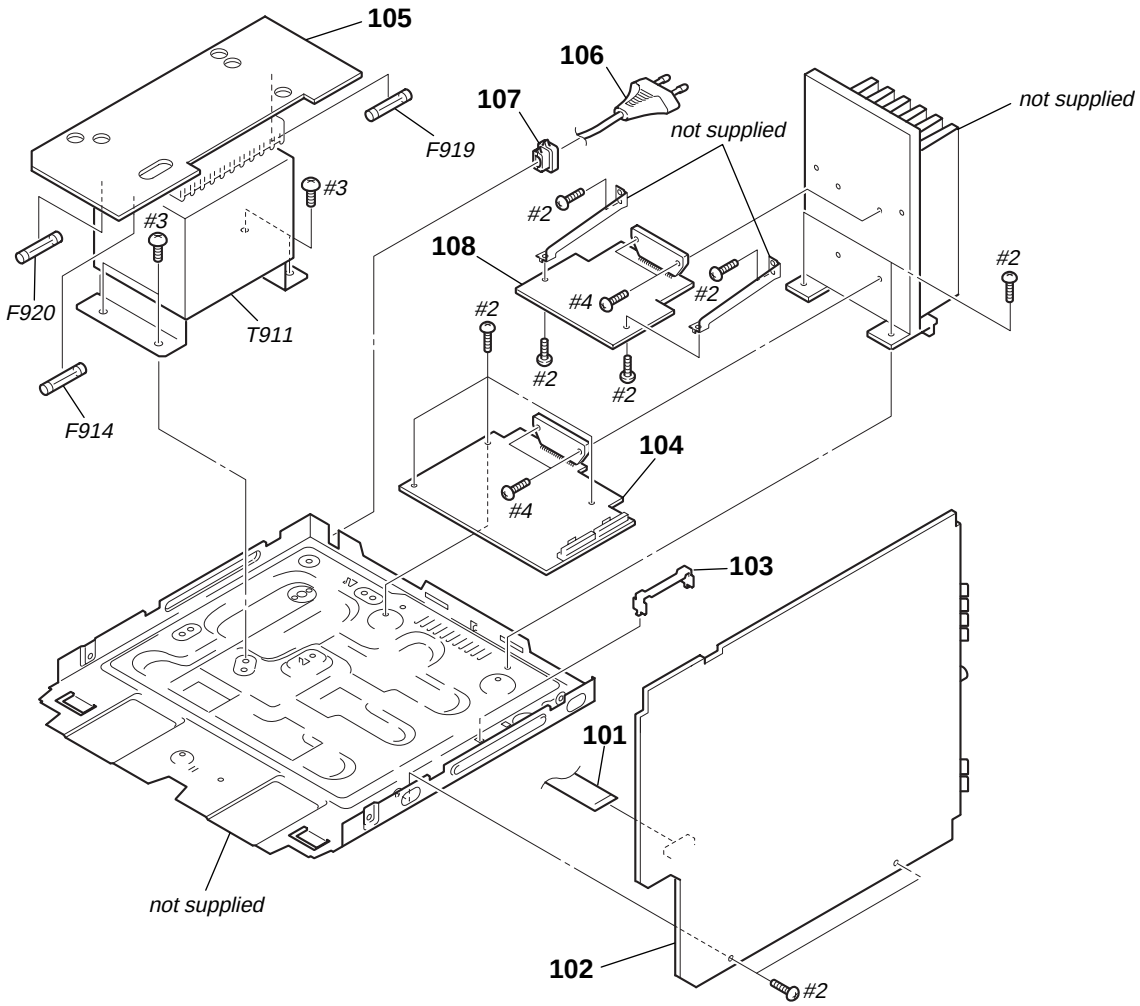
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-234-015-01	KNOB RING, VOLUME	
52	4-234-019-21	KNOB, VOLUME	
53	X-4954-672-1	DOOR (B) ASSY, CASSETTE	
54	X-4954-671-1	DOOR (A) ASSY, CASSETTE (EXCEPT AEP,UK)	
54	X-4954-722-1	DOOR (A) ASSY, CASSETTE (AEP,UK)	
55	4-233-980-01	FOOT, RUBBER	
56	4-238-638-01	WINDOW, DISPLAY (EXCEPT AEP,UK)	
56	4-238-638-11	WINDOW, DISPLAY (AEP,UK)	
57	4-239-346-01	DOOR SPRING (L), CASSETTE	
58	4-224-104-41	DAMPER	
59	1-684-500-11	MIC BOARD (EXCEPT AEP,UK)	
60	4-238-629-01	HOLDER (MIC)	
61	4-951-620-01	SCREW (2.6X8), +BVTP	
62	X-4954-670-1	PANEL ASSY, FRONT (EXCEPT AEP,UK)	
62	X-4954-721-1	PANEL ASSY, FRONT (AEP,UK)	
63	1-684-493-11	KEY BOARD	
64	4-238-628-01	KNOB, MIC (EXCEPT AEP,UK)	

Ref. No.	Part No.	Description	Remark
65	1-684-498-11	REMOTE BOARD (EXCEPT AEP,UK)	
65	1-684-498-21	REMOTE BOARD (AEP,UK)	
66	4-238-647-01	HOLDER (L), FL	
67	1-773-119-11	WIRE (FLAT TYPE) (19 CORE)	
68	A-4676-395-A	PANEL BOARD, COMPLETE (E51,SP)	
68	A-4676-419-A	PANEL BOARD, COMPLETE (AUS,MX,AR,KR)	
68	A-4676-424-A	PANEL BOARD, COMPLETE (E2)	
68	A-4676-487-A	PANEL BOARD, COMPLETE (AEP,UK)	
69	4-238-648-01	HOLDER (R), FL	
70	1-796-361-11	DECK, MECHANISM (AEP,UK)	
70	1-796-362-11	DECK, MECHANISM (EXCEPT AEP,UK)	
71	4-239-347-01	DOOR SPRING (R), CASSETTE	
72	4-231-841-01	SPRING (HEART CAM-B)	
73	4-231-836-01	SPRING (HEART CAM-A)	
74	4-235-777-01	BELT (FR)	
FLD801	1-518-793-11	INDICATOR TUBE, FLUORESCENT	

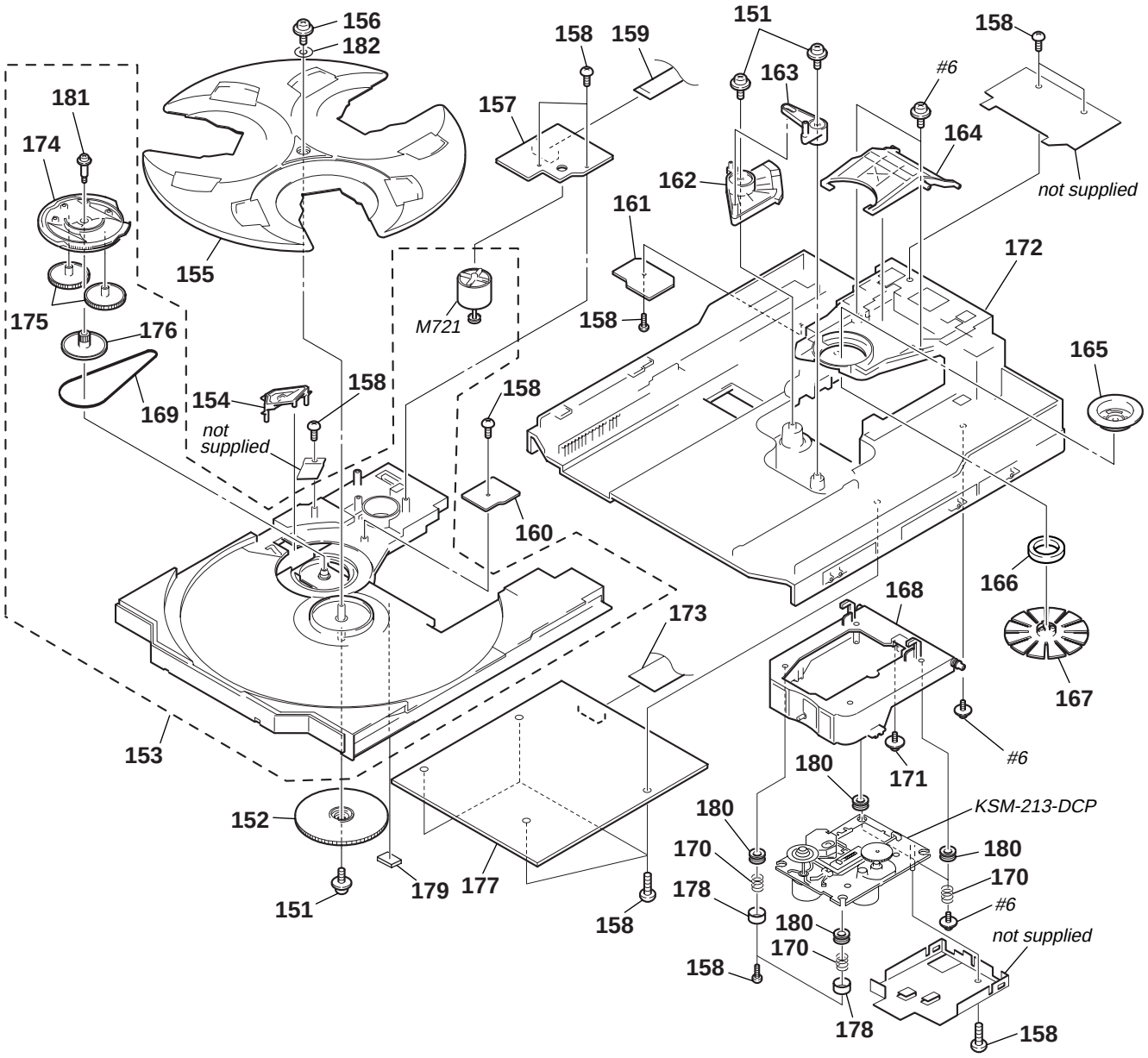
7-3. MAIN BOARD SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
101	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
102	A-4676-410-A	MAIN BOARD, COMPLETE (EXCEPT AEP,UK)	
102	A-4676-495-A	MAIN BOARD, COMPLETE (AEP,UK)	
* 103	4-988-533-01	HOLDER, PWB	
104	A-4676-399-A	POWER AMP BOARD, COMPLETE (EXCEPT AEP,UK)	
104	A-4676-486-A	POWER AMP BOARD, COMPLETE (AEP,UK)	
105	1-684-502-11	TRANS BOARD (EXCEPT AEP,UK)	
105	1-684-502-21	TRANS BOARD (AEP,UK)	
⚠106	1-690-608-11	CORD, POWER (AUS)	
⚠106	1-751-521-11	CORD, POWER (UK)	
⚠106	1-769-079-21	CORD, POWER (KR)	
⚠106	1-777-071-82	CORD, POWER (AEP,E51,SP)	
⚠106	1-783-941-22	CORD, POWER (AR)	
⚠106	1-791-901-11	CORD, POWER (E2,MX)	
107	4-966-267-04	BUSHING (FBS001), CORD (AR)	
* 107	3-703-244-00	BUSHING (2104), CORD (EXCEPT AR)	
108	A-4676-498-A	SUB WOOFER BOARD, COMPLETE (AEP,UK)	
⚠F914	1-533-949-31	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
⚠F919	1-533-472-11	FUSE, GLASS TUBE (DIA.5) (T5AL/250V) (E2,E51,SP,AR)	
⚠F920	1-533-949-31	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
⚠T911	1-437-228-11	TRANSFORMER, POWER (EXCEPT AEP,UK)	
⚠T911	1-437-701-11	TRANSFORMER, POWER (AEP,UK)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-880-09	SCREW +BVTT 4X6 (S)	
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	

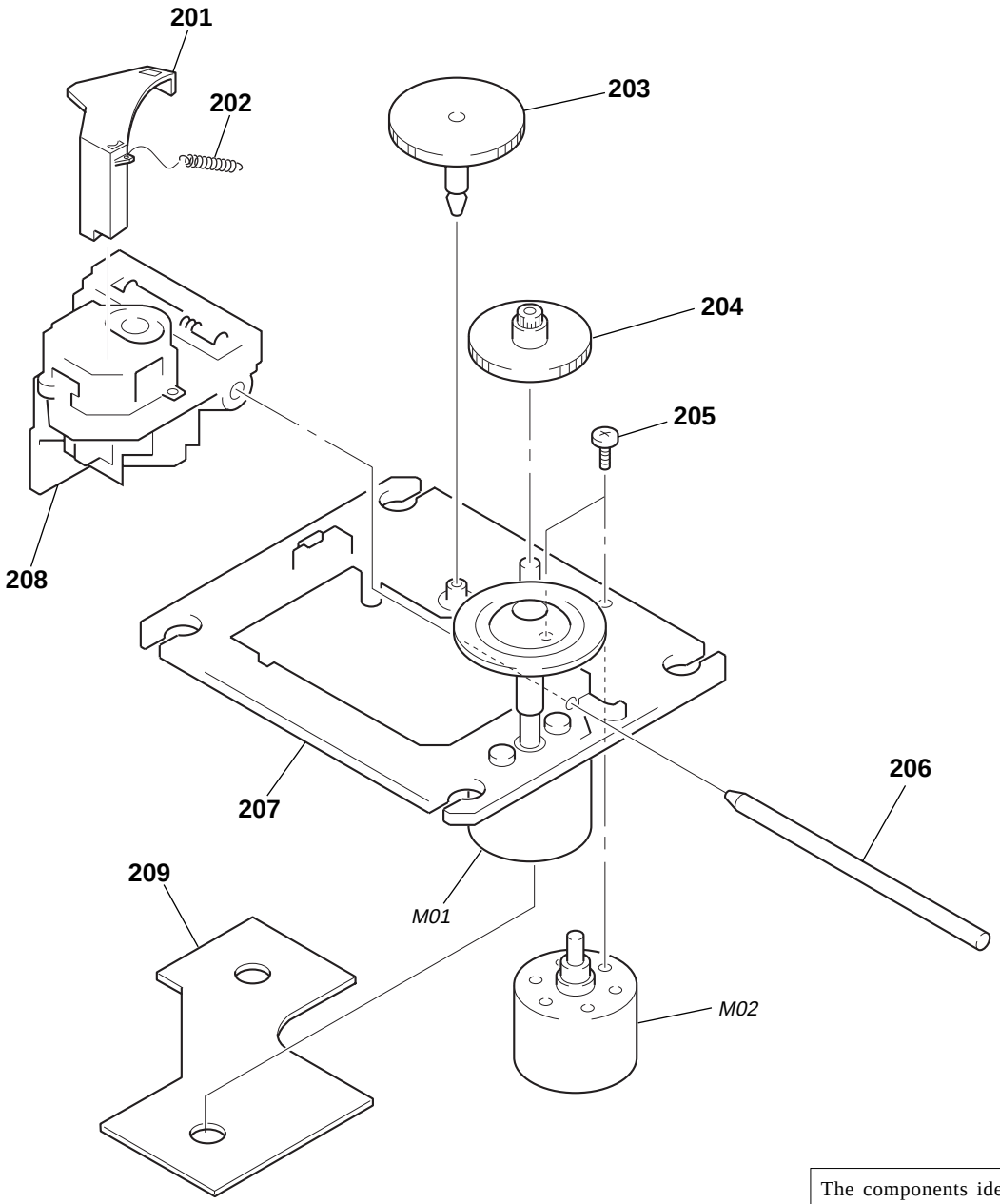
7-4. CD MECHANISM DECK SECTION
(CDM58F-K6A: AEP, UK, AUS, SP, KR)
(CDM58FS-K6A: E2, E51, MX, AR)



Ref. No.	Part No.	Description	Remark
151	4-933-134-11	SCREW (+PTPWH M2.6X8)	
152	4-221-679-01	CAM (RELAY)	
153	A-4735-097-A	TABLE SUB ASSY	
154	4-221-686-01	LEVER (CHANGE)	
155	4-221-676-01	TRAY (AEP,UK,AUS,SP,KR)	
155	4-241-135-01	TRAY (E2,E51,MX,AR)	
156	4-933-134-51	SCREW (+PTPWH M2.6X8)	
157	1-675-910-14	MOTOR BOARD	
158	4-951-620-01	SCREW (2.6X8), +BVTP	
159	1-791-983-12	WIRE (FLAT TYPE) (8 CORE)	
160	1-675-911-14	SENSOR (CD) BOARD	
161	1-675-912-14	DRIVER BOARD	
162	X-4952-608-1	CAM (U/D) ASSY	
163	4-221-681-01	LEVER (EX)	
164	4-221-682-01	LEVER (LIFTER)	
165	4-221-688-01	PULLEY (B), CHUCKING	
166	1-471-035-11	MAGNET ASSY	
167	X-4952-019-1	PULLEY (A) ASSY, CHUCKING	

Ref. No.	Part No.	Description	Remark
168	X-4951-889-1	HOLDER (BU) ASSY	
169	4-222-095-01	BELT	
170	4-227-045-11	SPRING (INSULATOR), COIL	
171	4-227-899-01	SCREW (DIA.12), FLOATING	
172	4-223-777-03	CHASSIS	
173	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)	
174	4-221-678-01	CAM (CONTROL)	
175	4-221-683-01	GEAR (U)	
176	4-221-685-01	PULLEY (S)	
177	A-4676-413-A	CD BOARD, COMPLETE	
178	4-231-151-01	STOPPER (BU)	
179	4-979-350-01	SPACER (TRAY) (0.8) (AEP,UK,AUS,SP,KR)	
179	4-979-350-41	SPACER (TRAY) (1.25) (E2,E51,MX,AR)	
180	4-227-549-11	INSULATOR	
181	4-222-097-01	SCREW, STEP	
182	4-241-660-01	WASHER (TRAY)	
M721	A-4672-826-A	MOTOR ASSY (TURN)	
#6	7-685-903-31	SCREW +PTPWH 3X10 (TYPE2)	

7-5. OPTICAL PICK-UP SECTION (KSM-213DCP)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
201	2-646-697-02	SHUTTER (F), LENS	
202	2-646-702-01	SPRING, EXTENSION	
203	2-625-188-02	GEAR (A)	
204	2-627-003-01	GEAR (B) (RP)	
205	3-713-786-51	SCREW +P 2X3	
206	2-626-908-51	SHAFT, SLED	
207	X-2161-802-1	CHASSIS ASSY (DCP), T.T (including M01)	
⚠208	8-820-020-11	OPTICAL PICK-UP KSS-213D	
209	1-684-496-11	(SPDL) MOTOR BOARD	
M02	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR	

SECTION 8
ELECTRICAL PARTS LIST

CD

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH
- Abbreviation
  AUS : Australian model
  SP : Singapore model
  KR : Korea model
  MX : Mexican model
  AR : Argentina model
  E2 : Central and South America model
  E51 : Chilean and Peruvian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-4676-413-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C704	1-164-159-21	CERAMIC	0.1uF		50V
C705	1-126-947-11	ELECT	47uF	20%	10V
C706	1-164-159-21	CERAMIC	0.1uF		50V
C707	1-126-964-11	ELECT	10uF	20%	50V
C708	1-161-494-00	CERAMIC	0.022uF		25V
C709	1-104-665-11	ELECT	100uF	20%	10V
C710	1-104-665-11	ELECT	100uF	20%	10V
C711	1-162-306-11	CERAMIC	0.01uF	20%	16V
C712	1-130-499-00	ELECT	0.22uF	5%	50V
C713	1-130-495-00	FILM	0.1uF	5%	50V
C714	1-126-947-11	ELECT	47uF	20%	10V
C715	1-162-294-31	CERAMIC	0.001uF	10%	50V
C717	1-126-964-11	ELECT	10uF	20%	50V
C719	1-161-494-00	CERAMIC	0.022uF		25V
C720	1-162-282-31	CERAMIC	100PF	10%	50V
C721	1-162-282-31	CERAMIC	100PF	10%	50V
C722	1-162-282-31	CERAMIC	100PF	10%	50V
C723	1-136-169-00	FILM	0.22uF	5%	50V
C724	1-130-489-00	MYLAR	0.033uF	5%	50V
C725	1-162-288-31	CERAMIC	330PF	10%	50V
C726	1-136-171-00	FILM	0.33uF	5%	50V
C727	1-136-167-00	FILM	0.15uF	5%	50V
C728	1-127-869-21	CERAMIC	0.0027uF	10%	50V
C730	1-130-485-00	MYLAR	0.015uF	5%	50V
C731	1-130-486-00	MYLAR	0.018uF	10%	50V
C732	1-130-493-00	MYLAR	0.068uF	5%	50V
C733	1-130-495-00	FILM	0.1uF	5%	50V
C734	1-164-159-21	CERAMIC	0.1uF		50V
C735	1-162-286-21	CERAMIC	220PF	10%	50V
C736	1-136-171-00	FILM	0.33uF	5%	50V
C737	1-162-306-11	CERAMIC	0.01uF	20%	16V
C738	1-162-292-31	CERAMIC	680PF	10%	50V
C739	1-162-600-11	CERAMIC	0.0047uF	10%	16V
C740	1-162-286-21	CERAMIC	220PF	10%	50V
C741	1-126-959-11	ELECT	0.47uF	20%	50V
C742	1-126-947-11	ELECT	47uF	20%	10V
C743	1-126-960-11	ELECT	1uF	20%	50V
C744	1-127-870-21	CERAMIC	0.0033uF	10%	50V
C745	1-162-194-31	CERAMIC	3.9PF	10%	50V
C746	1-162-306-11	CERAMIC	0.01uF	20%	16V
C747	1-164-159-21	CERAMIC	0.1uF		50V
C748	1-162-294-31	CERAMIC	0.001uF	10%	50V
C749	1-162-205-31	CERAMIC	18PF	5%	50V
C750	1-126-963-11	ELECT	4.7uF	20%	50V
C751	1-164-159-21	CERAMIC	0.1uF		50V
C752	1-164-159-21	CERAMIC	0.1uF		50V
C753	1-164-159-21	CERAMIC	0.1uF		50V
C754	1-162-286-21	CERAMIC	220PF	10%	50V
C755	1-161-494-00	CERAMIC	0.022uF		25V
C756	1-126-947-11	ELECT	47uF	20%	10V
C757	1-161-494-00	CERAMIC	0.022uF		25V
C758	1-126-947-11	ELECT	47uF	20%	10V
C759	1-164-159-21	CERAMIC	0.1uF		50V
C760	1-162-284-31	CERAMIC	150PF	10%	50V
C761	1-162-206-31	CERAMIC	20PF	5%	50V
C762	1-162-206-31	CERAMIC	20PF	5%	50V
C763	1-126-947-11	ELECT	47uF	20%	10V
C764	1-161-494-00	CERAMIC	0.022uF		25V
C766	1-130-479-00	MYLAR	0.0047uF	5%	50V
C767	1-162-282-31	CERAMIC	100PF	10%	50V
C768	1-162-282-31	CERAMIC	100PF	10%	50V
C769	1-162-282-31	CERAMIC	100PF	10%	50V
C770	1-162-282-31	CERAMIC	100PF	10%	50V
C771	1-126-961-11	ELECT	2.2uF	20%	50V
C772	1-126-961-11	ELECT	2.2uF	20%	50V
C773	1-162-294-31	CERAMIC	0.001uF	10%	50V
C774	1-162-294-31	CERAMIC	0.001uF	10%	50V
C775	1-162-282-31	CERAMIC	100PF	10%	50V
C776	1-162-282-31	CERAMIC	100PF	10%	50V
C777	1-126-947-11	ELECT	47uF	20%	10V
C780	1-162-282-31	CERAMIC	100PF	10%	50V
C781	1-126-926-11	ELECT	1000uF	20%	10V
C782	1-164-159-21	CERAMIC	0.1uF		50V
C783	1-126-961-11	ELECT	2.2uF	20%	50V
C786	1-161-494-00	CERAMIC	0.022uF		25V
C787	1-104-665-11	ELECT	100uF	20%	10V
C788	1-162-290-31	CERAMIC	470PF	10%	50V
C789	1-164-159-21	CERAMIC	0.1uF		50V
C790	1-164-159-21	CERAMIC	0.1uF		50V
C791	1-164-159-21	CERAMIC	0.1uF		50V
C792	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN731	1-779-553-11	CONNECTOR, FFC (LIF(NON-ZIF)) 16P			

CD

Ref. No.	Part No.	Description	Remark
CN733	1-784-780-11	CONNECTOR, FFC 19P	
* CN734	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P	
* CN735	1-564-712-11	PIN, CONNECTOR (SMALL TYPE) 10P	
		< DIODE >	
D731	8-719-991-33	DIODE 1SS133T-77	
D732	8-719-991-33	DIODE 1SS133T-77	
		< FERRITE BEAD >	
FB751	1-410-397-21	INDUCTOR, FERRITE BEAD 1.1uH	
FB752	1-410-397-21	INDUCTOR, FERRITE BEAD 1.1uH	
FB753	1-410-397-21	INDUCTOR, FERRITE BEAD 1.1uH	
		< IC >	
IC731	6-702-016-01	IC LA9242M	
IC751	6-700-355-01	IC LC78622NE	
IC781	8-759-473-42	IC BA6898FP	
		< COIL >	
L701	1-410-509-11	INDUCTOR 10uH	
L702	1-410-509-11	INDUCTOR 10uH	
L703	1-410-521-11	INDUCTOR 100uH	
L704	1-410-509-11	INDUCTOR 10uH	
L705	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q731	8-729-116-57	TRANSISTOR 2SB1068-K	
Q771	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q772	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q774	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q775	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< RESISTOR >	
R703	1-247-807-31	CARBON 100 5% 1/4W	
R704	1-249-393-11	CARBON 10 5% 1/4W	
R705	1-247-807-31	CARBON 100 5% 1/4W	
R706	1-247-807-31	CARBON 100 5% 1/4W	
R707	1-247-807-31	CARBON 100 5% 1/4W	
R708	1-249-441-11	CARBON 100K 5% 1/4W	
R709	1-249-427-11	CARBON 6.8K 5% 1/4W	
R710	1-249-421-11	CARBON 2.2K 5% 1/4W	
R715	1-249-430-11	CARBON 12K 5% 1/4W	
R716	1-249-439-11	CARBON 68K 5% 1/4W	
R717	1-249-439-11	CARBON 68K 5% 1/4W	
R718	1-249-436-11	CARBON 39K 5% 1/4W	
R719	1-247-843-11	CARBON 3.3K 5% 1/4W	
R720	1-249-434-11	CARBON 27K 5% 1/4W	
R721	1-249-414-11	CARBON 560 5% 1/4W	
R722	1-249-431-11	CARBON 15K 5% 1/4W	
R724	1-249-433-11	CARBON 22K 5% 1/4W	
R725	1-249-430-11	CARBON 12K 5% 1/4W	
R727	1-249-427-11	CARBON 6.8K 5% 1/4W	
R728	1-249-435-11	CARBON 33K 5% 1/4W	
R729	1-249-419-11	CARBON 1.5K 5% 1/4W	
R731	1-249-432-11	CARBON 18K 5% 1/4W	
R732	1-247-885-00	CARBON 180K 5% 1/4W	
R733	1-249-438-11	CARBON 56K 5% 1/4W	
R734	1-249-434-11	CARBON 27K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R735	1-249-435-11	CARBON 33K 5% 1/4W	
R736	1-249-419-11	CARBON 1.5K 5% 1/4W	
R737	1-247-843-11	CARBON 3.3K 5% 1/4W	
R738	1-247-807-31	CARBON 100 5% 1/4W	
R739	1-249-419-11	CARBON 1.5K 5% 1/4W	
R740	1-249-427-11	CARBON 6.8K 5% 1/4W	
R741	1-249-424-11	CARBON 3.9K 5% 1/4W	
R742	1-247-897-11	CARBON 560K 5% 1/4W	
R743	1-247-897-11	CARBON 560K 5% 1/4W	
R744	1-249-428-11	CARBON 8.2K 5% 1/4W	
R745	1-249-431-11	CARBON 15K 5% 1/4W	
R746	1-249-411-11	CARBON 330 5% 1/4W	
R747	1-249-433-11	CARBON 22K 5% 1/4W	
R748	1-249-437-11	CARBON 47K 5% 1/4W	
R749	1-249-415-11	CARBON 680 5% 1/4W	
R750	1-249-425-11	CARBON 4.7K 5% 1/4W	
R751	1-249-415-11	CARBON 680 5% 1/4W	
R752	1-249-434-11	CARBON 27K 5% 1/4W	
R753	1-249-418-11	CARBON 1.2K 5% 1/4W	
R754	1-249-435-11	CARBON 33K 5% 1/4W	
R755	1-249-442-11	CARBON 510 5% 1/4W	
R756	1-247-903-00	CARBON 1M 5% 1/4W	
R757	1-249-437-11	CARBON 47K 5% 1/4W	
R758	1-249-417-11	CARBON 1K 5% 1/4W	
R759	1-249-417-11	CARBON 1K 5% 1/4W	
R760	1-247-807-31	CARBON 100 5% 1/4W	
R761	1-249-417-11	CARBON 1K 5% 1/4W	
R762	1-249-417-11	CARBON 1K 5% 1/4W	
R763	1-249-417-11	CARBON 1K 5% 1/4W	
R764	1-249-417-11	CARBON 1K 5% 1/4W	
R765	1-249-417-11	CARBON 1K 5% 1/4W	
R766	1-247-807-31	CARBON 100 5% 1/4W	
R767	1-249-429-11	CARBON 10K 5% 1/4W	
R768	1-249-429-11	CARBON 10K 5% 1/4W	
R771	1-249-421-11	CARBON 2.2K 5% 1/4W	
R772	1-249-421-11	CARBON 2.2K 5% 1/4W	
R773	1-249-429-11	CARBON 10K 5% 1/4W	
R774	1-249-429-11	CARBON 10K 5% 1/4W	
R775	1-249-429-11	CARBON 10K 5% 1/4W	
R776	1-249-429-11	CARBON 10K 5% 1/4W	
R777	1-249-421-11	CARBON 2.2K 5% 1/4W	
R778	1-249-421-11	CARBON 2.2K 5% 1/4W	
R779	1-249-409-11	CARBON 220 5% 1/4W	
R780	1-249-425-11	CARBON 4.7K 5% 1/4W	
R781	1-249-430-11	CARBON 12K 5% 1/4W	
R782	1-249-429-11	CARBON 10K 5% 1/4W	
R783	1-249-421-11	CARBON 2.2K 5% 1/4W	
R784	1-247-807-31	CARBON 100 5% 1/4W	
R785	1-247-887-00	CARBON 220K 5% 1/4W	
R786	1-249-429-11	CARBON 10K 5% 1/4W	
R788	1-249-417-11	CARBON 1K 5% 1/4W	
R789	1-247-889-00	CARBON 270K 5% 1/4W	
R792	1-249-421-11	CARBON 2.2K 5% 1/4W	
R793	1-247-807-31	CARBON 100 5% 1/4W	
R794	1-249-437-11	CARBON 47K 5% 1/4W	
R795	1-249-437-11	CARBON 47K 5% 1/4W	
R796	1-249-437-11	CARBON 47K 5% 1/4W	
R797	1-249-437-11	CARBON 47K 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R798	1-249-441-11	CARBON	100K	5%	1/4W
R799	1-249-441-11	CARBON	100K	5%	1/4W
		< CONNECTOR >			
* TP731	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< VIBRATOR >			
X701	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
	1-675-912-14	DRIVER BOARD			
		**********			
		< CAPACITOR >			
C702	1-126-964-51	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN701	1-785-336-11	PIN, CONNECTOR (LIGHT ANGLE) 10P			
CN702	1-785-550-11	CONNECTOR, FFC/FPC 8P			
		< DIODE >			
D701	8-719-983-15	DIODE MTZJ-T-77-3.9A			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
		< RESISTOR >			
R701	1-249-411-11	CARBON	330	5%	1/4W
R702	1-249-401-11	CARBON	47	5%	1/4W
**********					
	1-684-493-11	KEY BOARD			
		**********			
		< DIODE >			
LED601	8-719-058-03	LED SEL5423E-TP15 (GAME MIXING)			
LED602	8-719-058-04	LED SEL5223S-TP15 (ENTER)			
		< RESISTOR >			
R806	1-216-809-11	METAL CHIP	100	5%	1/10W
R807	1-216-817-11	METAL CHIP	470	5%	1/10W
R811	1-216-817-11	METAL CHIP	470	5%	1/10W
R812	1-216-819-11	METAL CHIP	680	5%	1/10W
R813	1-216-821-11	METAL CHIP	1K	5%	1/10W
R814	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R815	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R816	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R817	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R818	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R819	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R820	1-216-833-11	METAL CHIP	10K	5%	1/10W
R821	1-216-835-11	METAL CHIP	15K	5%	1/10W
R822	1-216-837-11	METAL CHIP	22K	5%	1/10W
R835	1-216-835-11	METAL CHIP	15K	5%	1/10W
R836	1-216-837-11	METAL CHIP	22K	5%	1/10W
R837	1-216-839-11	METAL CHIP	33K	5%	1/10W
R845	1-216-827-11	METAL CHIP	3.3K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R846	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R847	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R848	1-216-833-11	METAL CHIP	10K	5%	1/10W
R849	1-216-835-11	METAL CHIP	15K	5%	1/10W
R850	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< SWITCH >			
S801	1-762-875-21	SWITCH, KEYBOARD (❚❚)			
S802	1-762-875-21	SWITCH, KEYBOARD (■)			
S803	1-762-875-21	SWITCH, KEYBOARD (▶▶❙)			
S804	1-762-875-21	SWITCH, KEYBOARD (▶▶ +)			
S805	1-762-875-21	SWITCH, KEYBOARD (◁▷)			
S806	1-762-875-21	SWITCH, KEYBOARD (– ◀◀)			
S807	1-762-875-21	SWITCH, KEYBOARD (❙◀◀)			
S808	1-762-875-21	SWITCH, KEYBOARD (◀)			
S809	1-762-875-21	SWITCH, KEYBOARD (▼)			
S810	1-762-875-21	SWITCH, KEYBOARD (▶)			
S811	1-762-875-21	SWITCH, KEYBOARD (▲)			
S812	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S824	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)			
S825	1-762-875-21	SWITCH, KEYBOARD (P FILE)			
S826	1-762-875-21	SWITCH, KEYBOARD (MOVIE EQ)			
S833	1-762-875-21	SWITCH, KEYBOARD (GAME EQ)			
S834	1-762-875-21	SWITCH, KEYBOARD (MUSIC EQ)			
S835	1-762-875-21	SWITCH, KEYBOARD (EFFECT ON/OFF)			
S836	1-762-875-21	SWITCH, KEYBOARD (GAME MIXING)			
S837	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			
S838	1-762-875-21	SWITCH, KEYBOARD (ENTER)			
**********					
	A-4676-410-A	MAIN BOARD, COMPLETE (EXCEPT AEP,UK)			
	A-4676-495-A	MAIN BOARD, COMPLETE (AEP,UK)			
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C100	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (EXCEPT AEP,UK)
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP,UK)
C104	1-126-947-11	ELECT	47uF	20%	16V
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C106	1-126-947-11	ELECT	47uF	20%	16V
C107	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-126-962-11	ELECT	3.3uF	20%	50V
C109	1-162-940-11	CERAMIC CHIP	9PF	0.5PF	50V
C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C111	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C112	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C113	1-126-959-11	ELECT	0.47uF	20%	50V
C114	1-126-947-11	ELECT	47uF	20%	16V
C115	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C116	1-126-961-11	ELECT	2.2uF	20%	50V
C117	1-126-947-11	ELECT	47uF	20%	16V
C118	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C119	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

MAIN

Ref. No.	Part No.	Description			Remark
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C121	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C122	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C124	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C125	1-126-947-11	ELECT	47uF	20%	16V
C126	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C127	1-126-959-11	ELECT	0.47uF	20%	50V
C128	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C129	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C131	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (AEP,UK)
C131	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V (EXCEPT AEP,UK)
C132	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (AEP,UK)
C132	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V (EXCEPT AEP,UK)
C133	1-126-960-11	ELECT	1uF	20%	50V
C134	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C135	1-126-963-11	ELECT	4.7uF	20%	50V
C136	1-126-963-11	ELECT	4.7uF	20%	50V
C137	1-126-960-11	ELECT	1uF	20%	50V
C138	1-126-963-11	ELECT	4.7uF	20%	50V
C139	1-164-471-11	CERAMIC CHIP	680PF	5%	50V
C140	1-126-964-11	ELECT	10uF	20%	50V
C141	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C142	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C143	1-126-964-11	ELECT	10uF	20%	50V
C144	1-126-947-11	ELECT	47uF	20%	16V
C145	1-162-921-11	CERAMIC CHIP	33PF	5%	50V (AEP,UK)
C146	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C147	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (AEP,UK)
C147	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V (EXCEPT AEP,UK)
C148	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C149	1-162-921-11	CERAMIC CHIP	33PF	5%	50V (AEP,UK)
C150	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C151	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C171	1-126-947-11	ELECT	47uF	20%	16V (AEP,UK)
C172	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP,UK)
C173	1-162-953-11	CERAMIC CHIP	100PF	5%	50V (AEP,UK)
C175	1-162-959-11	CERAMIC CHIP	330PF	5%	50V (AEP,UK)
C176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP,UK)
C179	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP,UK)
C180	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP,UK)
C181	1-126-961-11	ELECT	2.2uF	20%	50V (AEP,UK)
C182	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (AEP,UK)
C183	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (AEP,UK)
C184	1-126-961-11	ELECT	2.2uF	20%	50V (AEP,UK)
C185	1-164-363-11	CERAMIC CHIP	560PF	5%	50V (AEP,UK)
C186	1-126-964-11	ELECT	10uF	20%	50V (AEP,UK)
C187	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP,UK)
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C204	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C221	1-126-963-11	ELECT	4.7uF	20%	50V
C223	1-137-395-00	MYLAR	0.022uF	5%	100V
C225	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C226	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C230	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C231	1-162-949-11	CERAMIC CHIP	47PF	5%	50V
C232	1-126-947-11	ELECT	47uF	20%	16V
C233	1-130-471-00	MYLAR	0.001uF	5%	50V
C234	1-130-471-00	MYLAR	0.001uF	5%	50V
C235	1-126-960-11	ELECT	1uF	20%	50V
C236	1-126-933-11	ELECT	100uF	20%	16V
C237	1-126-960-11	ELECT	1uF	20%	50V
C239	1-130-485-00	MYLAR	0.015uF	5%	50V
C240	1-126-964-11	ELECT	10uF	20%	50V
C241	1-130-479-00	MYLAR	0.0047uF	5%	50V
C242	1-130-479-00	MYLAR	0.0047uF	5%	50V
C244	1-126-947-11	ELECT	47uF	20%	16V
C247	1-126-961-11	ELECT	2.2uF	20%	50V
C248	1-126-961-11	ELECT	2.2uF	20%	50V
C249	1-126-963-11	ELECT	4.7uF	20%	50V
C250	1-126-961-11	ELECT	2.2uF	20%	50V
C253	1-126-933-11	ELECT	100uF	20%	16V
C254	1-128-551-11	ELECT	22uF	20%	25V
C255	1-126-961-11	ELECT	2.2uF	20%	50V
C256	1-126-959-11	ELECT	0.47uF	20%	50V
C257	1-126-956-11	ELECT	0.1uF	20%	50V
C258	1-126-963-11	ELECT	4.7uF	20%	50V
C259	1-128-551-11	ELECT	22uF	20%	25V
C260	1-126-959-11	ELECT	0.47uF	20%	50V
C261	1-126-959-11	ELECT	0.47uF	20%	50V
C265	1-130-489-00	MYLAR	0.033uF	5%	50V
C266	1-130-483-00	MYLAR	0.01uF	5%	50V
C267	1-130-483-00	MYLAR	0.01uF	5%	50V
C268	1-126-960-11	ELECT	1uF	20%	50V
C269	1-126-960-11	ELECT	1uF	20%	50V
C272	1-126-960-11	ELECT	1uF	20%	50V
C273	1-126-960-11	ELECT	1uF	20%	50V
C285	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C286	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C301	1-126-964-11	ELECT	10uF	20%	50V
C302	1-126-964-11	ELECT	10uF	20%	50V
C303	1-104-665-11	ELECT	100uF	20%	10V
C304	1-126-963-11	ELECT	4.7uF	20%	50V (EXCEPT AEP,UK)
C307	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-126-964-11	ELECT	10uF	20%	50V
C310	1-126-964-11	ELECT	10uF	20%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-964-11	ELECT	10uF	20%	50V
C313	1-126-964-11	ELECT	10uF	20%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C317	1-126-964-11	ELECT	10uF	20%	50V
C318	1-126-964-11	ELECT	10uF	20%	50V
C319	1-130-491-00	MYLAR	0.047uF	5%	50V
C320	1-130-487-00	MYLAR	0.022uF	5%	50V
C321	1-130-487-00	MYLAR	0.022uF	5%	50V
C323	1-130-487-00	MYLAR	0.022uF	5%	50V
C324	1-130-487-00	MYLAR	0.022uF	5%	50V
C325	1-130-491-00	MYLAR	0.047uF	5%	50V
C326	1-130-487-00	MYLAR	0.022uF	5%	50V
C327	1-130-488-00	MYLAR	0.027uF	5%	50V
C328	1-130-488-00	MYLAR	0.027uF	5%	50V
C331	1-130-497-00	FILM	0.15uF	5%	50V
C332	1-130-497-00	FILM	0.15uF	5%	50V
C333	1-130-497-00	FILM	0.15uF	5%	50V
C334	1-130-497-00	FILM	0.15uF	5%	50V
C335	1-136-169-00	FILM	0.22uF	5%	50V (AEP,UK)
C336	1-136-171-00	FILM	0.33uF	5%	50V (AEP,UK)
C337	1-126-964-11	ELECT	10uF	20%	50V
C338	1-136-169-00	FILM	0.22uF	5%	50V (AEP,UK)
C343	1-126-947-11	ELECT	47uF	20%	16V
C344	1-126-933-11	ELECT	100uF	20%	16V
C345	1-126-933-11	ELECT	100uF	20%	16V
C346	1-126-964-11	ELECT	10uF	20%	50V (AEP,UK)
C347	1-126-964-11	ELECT	10uF	20%	50V
C348	1-126-964-11	ELECT	10uF	20%	50V
C349	1-126-964-11	ELECT	10uF	20%	50V
C350	1-126-964-11	ELECT	10uF	20%	50V
C351	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C352	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C354	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C355	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C357	1-104-665-11	ELECT	100uF	20%	10V
C359	1-126-961-11	ELECT	2.2uF	20%	50V (AEP,UK)
C360	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C363	1-107-717-11	ELECT	47uF	20%	50V
C364	1-109-953-11	ELECT	2.2uF	20%	50V
C367	1-162-953-11	CERAMIC CHIP	100PF	5%	50V (AEP,UK)
C368	1-162-953-11	CERAMIC CHIP	100PF	5%	50V (AEP,UK)
C369	1-126-964-11	ELECT	10uF	20%	50V
C370	1-126-964-11	ELECT	10uF	20%	50V (AEP,UK)
C371	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP,UK)
C372	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP,UK)
C373	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP,UK)
C374	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP,UK)
C375	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C376	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C377	1-126-963-11	ELECT	4.7uF	20%	50V
C378	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C381	1-104-665-11	ELECT	100uF	20%	10V
C382	1-126-961-11	ELECT	2.2uF	20%	50V
C383	1-126-961-11	ELECT	2.2uF	20%	50V
C601	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C602	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C603	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C604	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C606	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C631	1-126-959-11	ELECT	0.47uF	20%	50V
C658	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C660	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C671	1-126-916-11	ELECT	1000uF	20%	6.3V
C674	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C676	1-104-665-11	ELECT	100uF	20%	10V
C683	1-130-497-00	FILM	0.15uF	5%	50V
C684	1-130-497-00	FILM	0.15uF	5%	50V
C685	1-126-768-11	ELECT	2200uF	20%	16V
C686	1-126-964-11	ELECT	10uF	20%	50V
C687	1-126-916-11	ELECT	1000uF	20%	6.3V
C688	1-126-964-11	ELECT	10uF	20%	50V
C689	1-104-665-11	ELECT	100uF	20%	10V
C690	1-126-964-11	ELECT	10uF	20%	50V
C691	1-126-933-11	ELECT	100uF	20%	16V
C692	1-126-935-11	ELECT	470uF	20%	10V
C693	1-130-483-00	MYLAR	0.01uF	5%	50V
C694	1-130-483-00	MYLAR	0.01uF	5%	50V
C697	1-126-943-11	ELECT	2200uF	20%	25V
C698	1-126-964-11	ELECT	10uF	20%	50V
C699	1-126-935-11	ELECT	470uF	20%	16V

< FILTER >

CF101	1-760-023-11	FILTER, CERAMIC (EXCEPT AEP,UK)
CF101	1-795-426-11	FILTER, CERAMIC (AEP,UK)
CF102	1-760-023-11	FILTER, CERAMIC (EXCEPT AEP,UK)
CF102	1-795-426-11	FILTER, CERAMIC (AEP,UK)

< CONNECTOR >

*	CN203	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P (AEP,UK)
	CN302	1-784-774-11	CONNECTOR, FFC 13P
	CN303	1-564-506-11	PLUG, CONNECTOR 3P
*	CN305	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
	CN306	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P
	CN307	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P
	CN308	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P
	CN311	1-564-505-11	PLUG, CONNECTOR 2P (SUB WOOFER CONTROL) (AEP,UK)

< DIODE >

D101	8-719-914-42	DIODE DA204K

MAIN

Ref. No.	Part No.	Description	Remark
D107	8-719-988-61	DIODE 1SS355TE-17 (AEP,UK)	
D108	8-719-988-61	DIODE 1SS355TE-17	
D109	8-719-988-61	DIODE 1SS355TE-17	
D203	8-719-988-61	DIODE 1SS355TE-17	
D204	8-719-988-61	DIODE 1SS355TE-17	
D205	8-719-988-61	DIODE 1SS355TE-17	
D301	8-719-069-60	DIODE UDZS-TE-17-9.1B	
D361	8-719-988-61	DIODE 1SS355TE-17	
D362	8-719-988-61	DIODE 1SS355TE-17	
D371	8-719-988-61	DIODE 1SS355TE-17	
D372	8-719-988-61	DIODE 1SS355TE-17	
D374	8-719-988-61	DIODE 1SS355TE-17	
D375	8-719-988-61	DIODE 1SS355TE-17 (AEP,UK)	
D383	8-719-988-61	DIODE 1SS355TE-17	
D601	8-719-988-61	DIODE 1SS355TE-17	
D602	8-719-988-61	DIODE 1SS355TE-17	
D631	8-719-988-61	DIODE 1SS355TE-17	
D681	8-719-083-89	DIODE 11ES2N-TB5	
D682	8-719-083-89	DIODE 11ES2N-TB5	
D683	8-719-083-89	DIODE 11ES2N-TB5	
D684	8-719-083-89	DIODE 11ES2N-TB5	
D685	8-719-988-61	DIODE 1SS355TE-17	
D686	8-719-988-61	DIODE 1SS355TE-17	
D687	8-719-083-89	DIODE 11ES2N-TB5	
D688	8-719-083-89	DIODE 11ES2N-TB5	
D689	8-719-083-89	DIODE 11ES2N-TB5	
D690	8-719-083-89	DIODE 11ES2N-TB5	
D691	8-719-083-89	DIODE 11ES2N-TB5	
D692	8-719-083-89	DIODE 11ES2N-TB5	
D693	8-719-988-61	DIODE 1SS355TE-17	
		< FERRITE BEAD >	
FB1	1-550-907-21	BEAD (CHIP), FERRITE	
FB2	1-550-907-21	BEAD (CHIP), FERRITE	
		< FRONT END >	
FE101	1-693-478-11	FRONT END (3 GANG) (ANTENNA)	(EXCEPT AEP,UK)
FE101	1-693-496-11	FRONT END (4 GANG) (ANTENNA) (AEP,UK)	
		< EARTH TERMINAL >	
* GND1	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC101	8-759-828-33	IC LA1845	
IC102	8-759-590-13	IC LC72131D	
IC103	8-759-541-48	IC BU1924 (AEP,UK)	
IC201	6-702-130-01	IC HA12237F	
IC301	6-702-422-11	IC M61519FPD61G	
IC302	8-759-710-97	IC NJM4565M-D (AEP,UK)	
IC304	8-759-710-97	IC NJM4565M-D	
IC601	8-759-828-32	IC PT8300	
IC681	8-759-039-69	IC uPC7805AHF	
IC682	8-759-039-69	IC uPC7805AHF	
IC683	8-759-088-08	IC uPC7812AHF	
IC684	8-759-604-31	IC M5F7809L	

Ref. No.	Part No.	Description			Remark
		< IFT >			
IFT101	1-435-848-12	TRANSFORMER, IF (CERAMIC FILTER)			
		< TERMINAL BOARD >			
JK101	1-694-555-12	TERMINAL BOARD (4P) (ANTENNA)			(EXCEPT AEP,UK)
JK101	1-694-556-22	TERMINAL BOARD (ANT.PAL) (ANTENNA)			(AEP,UK)
JK302	1-694-635-12	TERMINAL BOARD (4P) (SPEAKER)			
		< JACK >			
JK301	1-793-987-11	JACK, PIN 2P (MD (VIDEO) IN)			
JK303	1-774-785-11	JACK, PIN 1P (SUB WOOFER OUT) (AEP,UK)			
		< JUMPER RESISTOR >			
JR110	1-216-864-11	METAL CHIP	0	5% 1/10W	(AEP,UK)
JR112	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR113	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR114	1-216-864-11	METAL CHIP	0	5% 1/10W	(EXCEPT AEP,UK)
JR116	1-216-864-11	METAL CHIP	0	5% 1/10W	(EXCEPT AEP,UK)
JR118	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR119	1-216-864-11	METAL CHIP	0	5% 1/10W	(AEP,UK)
JR120	1-216-864-11	METAL CHIP	0	5% 1/10W	(AEP,UK)
JR121	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR122	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR123	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR124	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR125	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR126	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR603	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR606	1-216-864-11	METAL CHIP	0	5% 1/10W	
JR609	1-216-864-11	METAL CHIP	0	5% 1/10W	(EXCEPT AEP,UK)
JR612	1-216-864-11	METAL CHIP	0	5% 1/10W	(EXCEPT AEP,UK)
JR636	1-216-864-11	METAL CHIP	0	5% 1/10W	(AEP,UK)
JR637	1-216-864-11	METAL CHIP	0	5% 1/10W	(AEP,UK)
JR639	1-216-864-11	METAL CHIP	0	5% 1/10W	(AEP,UK)
		< COIL >			
L107	1-410-387-11	INDUCTOR CHIP 33uH (AEP,UK)			
L109	1-410-393-11	INDUCTOR CHIP 100uH (AEP,UK)			
L201	1-437-220-11	TRANSFORMER, BIAS OSCILLATION			
L371	1-422-009-13	COIL, AIR-CORE (AEP,UK)			
L372	1-422-009-13	COIL, AIR-CORE (AEP,UK)			
L671	1-414-189-31	INDUCTOR 100uH			
		< IC >			
PH671	8-749-923-04	IC TOTX178A (CD DIGITAL OUT OPTICAL)			

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q101	8-729-922-66	TRANSISTOR 2SC2410SN	
Q102	8-729-422-57	TRANSISTOR UN4111	
Q103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q105	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (AEP,UK)	
Q210	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q211	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q212	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q218	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q219	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q220	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q221	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q222	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q223	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q224	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q225	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q228	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q304	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP,UK)	
Q361	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q362	8-729-900-63	TRANSISTOR DTA124ES	
Q363	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q364	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q365	8-729-900-63	TRANSISTOR DTA124ES	
Q371	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q381	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q382	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q383	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q384	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q385	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q386	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q387	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q389	8-729-119-76	TRANSISTOR 2SA1175-HFE (AEP,UK)	
Q601	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q602	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q603	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q604	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q605	8-729-116-02	TRANSISTOR BA1A4M-TP	
Q606	8-729-116-57	TRANSISTOR 2SB1068-K	
Q631	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q632	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q681	8-729-049-79	TRANSISTOR RT1P137S-TP	
Q682	8-729-116-02	TRANSISTOR BA1A4M-TP	
		< RESISTOR >	
R101	1-216-805-11	METAL CHIP 47 5% 1/10W	
R102	1-216-819-11	METAL CHIP 680 5% 1/10W	
R103	1-216-819-11	METAL CHIP 680 5% 1/10W	
R104	1-216-811-11	METAL CHIP 150 5% 1/10W	
R105	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R106	1-216-815-11	METAL CHIP 330 5% 1/10W	(EXCEPT AEP,UK)
R106	1-216-819-11	METAL CHIP 680 5% 1/10W	(AEP,UK)
R108	1-216-815-11	METAL CHIP 330 5% 1/10W	
R109	1-216-805-11	METAL CHIP 47 5% 1/10W	
R110	1-216-833-11	METAL CHIP 10K 5% 1/10W	(AEP,UK)
R111	1-216-809-11	METAL CHIP 100 5% 1/10W	
R112	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R113	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R114	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R115	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R116	1-216-809-11	METAL CHIP 100 5% 1/10W	
R117	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R117	1-216-833-11	METAL CHIP 10K 5% 1/10W	(EXCEPT AEP,UK)
R118	1-216-809-11	METAL CHIP 100 5% 1/10W	
R119	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R120	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R121	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R122	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R123	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R124	1-216-813-11	METAL CHIP 220 5% 1/10W	(AEP,UK)
R124	1-216-814-11	METAL CHIP 270 5% 1/10W	(EXCEPT AEP,UK)
R125	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R126	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R127	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R128	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	(EXCEPT AEP,UK)
R128	1-216-837-11	METAL CHIP 22K 5% 1/10W	(AEP,UK)
R129	1-216-822-11	METAL CHIP 1.2K 5% 1/10W	(EXCEPT AEP,UK)
R129	1-216-837-11	METAL CHIP 22K 5% 1/10W	(AEP,UK)
R130	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R131	1-216-833-11	METAL CHIP 10K 5% 1/10W	(AEP,UK)
R131	1-216-837-11	METAL CHIP 22K 5% 1/10W	(EXCEPT AEP,UK)
R132	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R133	1-216-817-11	METAL CHIP 470 5% 1/10W	(AEP,UK)
R133	1-216-821-11	METAL CHIP 1K 5% 1/10W	(EXCEPT AEP,UK)
R134	1-216-817-11	METAL CHIP 470 5% 1/10W	(AEP,UK)
R134	1-216-821-11	METAL CHIP 1K 5% 1/10W	(EXCEPT AEP,UK)
R135	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R136	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R137	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R138	1-216-809-11	METAL CHIP 100 5% 1/10W	(EXCEPT AEP,UK)
R138	1-216-833-11	METAL CHIP 10K 5% 1/10W	(AEP,UK)
R139	1-216-837-11	METAL CHIP 22K 5% 1/10W	(AEP,UK)
R140	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R141	1-216-813-11	METAL CHIP 220 5% 1/10W	(AEP,UK)
R141	1-216-814-11	METAL CHIP 270 5% 1/10W	(EXCEPT AEP,UK)

MAIN

Ref. No.	Part No.	Description			Remark
R142	1-216-839-11	METAL CHIP	33K	5%	1/10W (AEP,UK)
R143	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AEP,UK)
R143	1-216-849-11	METAL CHIP	220K	5%	1/10W (EXCEPT AEP,UK)
R144	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AEP,UK)
R144	1-216-849-11	METAL CHIP	220K	5%	1/10W (EXCEPT AEP,UK)
R146	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R171	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP,UK)
R172	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP,UK)
R173	1-216-837-11	METAL CHIP	22K	5%	1/10W (AEP,UK)
R174	1-216-821-11	METAL CHIP	1K	5%	1/10W (AEP,UK)
R175	1-216-817-11	METAL CHIP	470	5%	1/10W (AEP,UK)
R177	1-216-805-11	METAL CHIP	47	5%	1/10W (AEP,UK)
R181	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AEP,UK)
R183	1-216-813-11	METAL CHIP	220	5%	1/10W (AEP,UK)
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R218	1-216-849-11	METAL CHIP	220K	5%	1/10W
R219	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-216-833-11	METAL CHIP	10K	5%	1/10W
R226	1-216-833-11	METAL CHIP	10K	5%	1/10W
R231	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R232	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R233	1-216-837-11	METAL CHIP	22K	5%	1/10W
R234	1-216-837-11	METAL CHIP	22K	5%	1/10W
R235	1-216-833-11	METAL CHIP	10K	5%	1/10W
R236	1-216-821-11	METAL CHIP	1K	5%	1/10W
R237	1-216-857-11	METAL CHIP	1M	5%	1/10W
R238	1-216-853-11	METAL CHIP	470K	5%	1/10W
R239	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R241	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R242	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R245	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R249	1-216-853-11	METAL CHIP	470K	5%	1/10W
R250	1-216-849-11	METAL CHIP	220K	5%	1/10W
R251	1-216-797-11	METAL CHIP	10	5%	1/10W
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R254	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R256	1-216-833-11	METAL CHIP	10K	5%	1/10W
R257	1-216-817-11	METAL CHIP	470	5%	1/10W
R258	1-216-813-11	METAL CHIP	220	5%	1/10W
R260	1-216-814-11	METAL CHIP	270	5%	1/10W
R261	1-216-817-11	METAL CHIP	470	5%	1/10W
R262	1-216-845-11	METAL CHIP	100K	5%	1/10W
R263	1-216-833-11	METAL CHIP	10K	5%	1/10W
R264	1-216-833-11	METAL CHIP	10K	5%	1/10W
R265	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R266	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R267	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R268	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R270	1-216-833-11	METAL CHIP	10K	5%	1/10W
R271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R272	1-216-833-11	METAL CHIP	10K	5%	1/10W
R278	1-216-837-11	METAL CHIP	22K	5%	1/10W
R282	1-216-813-11	METAL CHIP	220	5%	1/10W
R283	1-216-833-11	METAL CHIP	10K	5%	1/10W
R284	1-216-841-11	METAL CHIP	47K	5%	1/10W
R285	1-216-833-11	METAL CHIP	10K	5%	1/10W
R286	1-216-833-11	METAL CHIP	10K	5%	1/10W
R287	1-216-841-11	METAL CHIP	47K	5%	1/10W
R288	1-216-841-11	METAL CHIP	47K	5%	1/10W
R301	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R303	1-216-837-11	METAL CHIP	22K	5%	1/10W
R304	1-216-837-11	METAL CHIP	22K	5%	1/10W
R305	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R306	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R309	1-216-821-11	METAL CHIP	1K	5%	1/10W (AEP,UK)
R310	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP,UK)
R317	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R318	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R319	1-216-821-11	METAL CHIP	1K	5%	1/10W
R320	1-216-821-11	METAL CHIP	1K	5%	1/10W
R323	1-216-821-11	METAL CHIP	1K	5%	1/10W
R324	1-216-821-11	METAL CHIP	1K	5%	1/10W
R325	1-216-833-11	METAL CHIP	10K	5%	1/10W
R326	1-216-833-11	METAL CHIP	10K	5%	1/10W
R327	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (EXCEPT AEP,UK)
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W
R331	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R332	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R333	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R334	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R335	1-216-845-11	METAL CHIP	100K	5%	1/10W
R336	1-216-845-11	METAL CHIP	100K	5%	1/10W
R337	1-216-833-11	METAL CHIP	10K	5%	1/10W
R338	1-216-833-11	METAL CHIP	10K	5%	1/10W
R341	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP,UK)
R343	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP,UK)
R344	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP,UK)
R345	1-216-835-11	METAL CHIP	15K	5%	1/10W (AEP,UK)
R346	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP,UK)
R347	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP,UK)
R348	1-216-813-11	METAL CHIP	220	5%	1/10W
R349	1-216-813-11	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description			Remark
R352	1-216-845-11	METAL CHIP	100K	5%	1/10W
R357	1-216-845-11	METAL CHIP	100K	5%	1/10W
R358	1-216-837-11	METAL CHIP	22K	5%	1/10W
R359	1-216-805-11	METAL CHIP	47	5%	1/10W
R360	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R361	1-215-868-00	METAL OXIDE	680	5%	1W F
⚠R362	1-215-868-00	METAL OXIDE	680	5%	1W F
R363	1-216-821-11	METAL CHIP	1K	5%	1/10W
R364	1-216-821-11	METAL CHIP	1K	5%	1/10W
R365	1-216-841-11	METAL CHIP	47K	5%	1/10W
R366	1-216-833-11	METAL CHIP	10K	5%	1/10W
R367	1-216-821-11	METAL CHIP	1K	5%	1/10W
R368	1-216-845-11	METAL CHIP	100K	5%	1/10W
R369	1-216-833-11	METAL CHIP	10K	5%	1/10W
R370	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R371	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R372	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R373	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R374	1-216-841-11	METAL CHIP	47K	5%	1/10W
R375	1-216-809-11	METAL CHIP	100	5%	1/10W
R376	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK)
R377	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP,UK)
⚠R380	1-260-304-51	CARBON	10	5%	1/2W F (AEP,UK)
R381	1-216-841-11	METAL CHIP	47K	5%	1/10W
R382	1-216-843-11	METAL CHIP	68K	5%	1/10W
R383	1-216-833-11	METAL CHIP	10K	5%	1/10W
R384	1-216-833-11	METAL CHIP	10K	5%	1/10W
R385	1-216-839-11	METAL CHIP	33K	5%	1/10W
R386	1-216-837-11	METAL CHIP	22K	5%	1/10W
R387	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R388	1-216-837-11	METAL CHIP	22K	5%	1/10W
R389	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R390	1-260-304-51	CARBON	10	5%	1/2W F (AEP,UK)
⚠R391	1-260-304-51	CARBON	10	5%	1/2W F (AEP,UK)
⚠R392	1-260-304-51	CARBON	10	5%	1/2W F (AEP,UK)
⚠R393	1-215-862-11	METAL OXIDE	68	5%	1W F
R394	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK)
R395	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP,UK)
R396	1-218-867-11	RES-CHIP	6.8K	5%	1/10W (AEP,UK)
R397	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP,UK)
R398	1-216-833-11	METAL CHIP	10K	5%	1/10W (AEP,UK)
⚠R399	1-215-862-11	METAL OXIDE	68	5%	1W F (AEP,UK)
R601	1-216-821-11	METAL CHIP	1K	5%	1/10W
R602	1-216-821-11	METAL CHIP	1K	5%	1/10W
R603	1-216-821-11	METAL CHIP	1K	5%	1/10W
R604	1-216-821-11	METAL CHIP	1K	5%	1/10W
R605	1-216-821-11	METAL CHIP	1K	5%	1/10W
R606	1-216-821-11	METAL CHIP	1K	5%	1/10W
R607	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R608	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R609	1-216-844-11	METAL CHIP	82K	5%	1/10W
R610	1-216-840-11	METAL CHIP	39K	5%	1/10W
R611	1-216-844-11	METAL CHIP	82K	5%	1/10W
R612	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R613	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R614	1-216-840-11	METAL CHIP	39K	5%	1/10W
R615	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R616	1-216-836-11	METAL CHIP	18K	5%	1/10W
R617	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R618	1-216-836-11	METAL CHIP	18K	5%	1/10W
R619	1-216-841-11	METAL CHIP	47K	5%	1/10W
R620	1-216-841-11	METAL CHIP	47K	5%	1/10W
R621	1-216-833-11	METAL CHIP	10K	5%	1/10W
R622	1-216-809-11	METAL CHIP	100	5%	1/10W
R623	1-216-809-11	METAL CHIP	100	5%	1/10W
R624	1-216-809-11	METAL CHIP	100	5%	1/10W
R625	1-216-809-11	METAL CHIP	100	5%	1/10W
R631	1-216-837-11	METAL CHIP	22K	5%	1/10W
R632	1-216-837-11	METAL CHIP	22K	5%	1/10W
R633	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R634	1-216-845-11	METAL CHIP	100K	5%	1/10W
R635	1-216-857-11	METAL CHIP	1M	5%	1/10W
R636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R637	1-216-833-11	METAL CHIP	10K	5%	1/10W
R638	1-216-841-11	METAL CHIP	47K	5%	1/10W
R639	1-216-841-11	METAL CHIP	47K	5%	1/10W
		< ENCAPSULATED COMPONENT >			
RB101	1-234-575-11	COMPONENT, ENCAPSULATED			
		< VARIABLE RESISTOR >			
RV101	1-241-765-11	RES, ADJ, CARBON 22K			
		< RELAY >			
RY371	1-755-373-11	RELAY			
RY373	1-755-373-11	RELAY (AEP,UK)			
		< TRANSFORMER >			
T101	1-435-792-11	TRANSFORMER, DISCRIMINATOR			
		< VIBRATOR >			
X101	1-760-549-31	VIBRATOR, CRYSTAL (4.5MHz)			
X102	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz) (AEP,UK)			

****

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MIC **MOTOR** **PANEL**

Ref. No.	Part No.	Description			Remark
	1-684-500-11	MIC BOARD (EXCEPT AEP,UK)			
		**********			
		< CAPACITOR >			
C872	1-164-159-21	CERAMIC	0.1uF		50V (EXCEPT AEP,UK)
		< CONNECTOR >			
* CN663	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			(EXCEPT AEP,UK)
		< JACK >			
JK802	1-770-226-11	JACK (LARGE TYPE) (MIC) (EXCEPT AEP,UK)			
	1-675-910-14	MOTOR BOARD			
		**********			
		< CAPACITOR >			
C721	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN721	1-770-516-31	CONNECTOR, FFC 8P			
CN722	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P			
		< SWITCH >			
S701	1-771-822-11	SWITCH, LEVER (SLIDE) (SLIDE OPEN/CLOSE)			
	A-4676-395-A	PANEL BOARD, COMPLETE (E51,SP)			
	A-4676-419-A	PANEL BOARD, COMPLETE (AUS,MX,AR,KR)			
	A-4676-424-A	PANEL BOARD, COMPLETE (E2)			
	A-4676-487-A	PANEL BOARD, COMPLETE (AEP,UK)			
		**********			
	4-238-647-01	HOLDER (L), FL			
	4-238-648-01	HOLDER (R), FL			
		< CAPACITOR >			
C640	1-162-293-31	CERAMIC	820PF	10%	50V
C641	1-126-957-11	ELECT	0.22uF	20%	50V
C642	1-130-489-00	MYLAR	0.033uF	5%	50V
C643	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C644	1-126-957-11	ELECT	0.22uF	20%	50V
C645	1-126-957-11	ELECT	0.22uF	20%	50V
C646	1-162-306-11	CERAMIC	0.01uF	30%	16V
C647	1-126-957-11	ELECT	0.22uF	20%	50V
C648	1-126-959-11	ELECT	0.47uF	20%	50V
C649	1-110-671-31	CERAMIC	0.047uF		50V
C650	1-126-957-11	ELECT	0.22uF	20%	50V
C651	1-126-957-11	ELECT	0.22uF	20%	50V
C801	1-126-964-11	ELECT	10uF	20%	50V
C802	1-126-964-11	ELECT	10uF	20%	50V
C803	1-124-589-11	ELECT	47uF	20%	16V
C806	1-161-494-00	CERAMIC	0.022uF		25V
C807	1-162-294-31	CERAMIC	0.001uF	10%	50V
C808	1-162-294-31	CERAMIC	0.001uF	10%	50V
C809	1-162-290-31	CERAMIC	470PF	10%	50V
C810	1-162-290-31	CERAMIC	470PF	10%	50V

Ref. No.	Part No.	Description			Remark
C811	1-126-916-11	ELECT	1000uF	20%	6.3V
C812	1-126-964-11	ELECT	10uF	20%	50V
C813	1-136-165-00	FILM	0.1uF	5%	50V
C814	1-161-494-00	CERAMIC	0.022uF		25V
C815	1-136-165-00	FILM	0.1uF	5%	50V
C816	1-162-203-31	CERAMIC	15PF	5%	50V
C817	1-162-205-31	CERAMIC	18PF	5%	50V
C818	1-164-159-21	CERAMIC	0.1uF		50V
C819	1-128-551-11	ELECT	22uF	20%	25V
C820	1-164-159-21	CERAMIC	0.1uF		50V
C822	1-162-282-31	CERAMIC	100PF	10%	50V
C823	1-162-282-31	CERAMIC	100PF	10%	50V
C824	1-162-282-31	CERAMIC	100PF	10%	50V
C825	1-162-282-31	CERAMIC	100PF	10%	50V
C826	1-162-282-31	CERAMIC	100PF	10%	50V
C827	1-162-282-31	CERAMIC	100PF	10%	50V
C828	1-162-282-31	CERAMIC	100PF	10%	50V
C829	1-162-282-31	CERAMIC	100PF	10%	50V
C830	1-162-282-31	CERAMIC	100PF	10%	50V
C831	1-162-282-31	CERAMIC	100PF	10%	50V
C832	1-162-282-31	CERAMIC	100PF	10%	50V
C833	1-162-282-31	CERAMIC	100PF	10%	50V
C834	1-162-282-31	CERAMIC	100PF	10%	50V
C835	1-104-665-11	ELECT	100uF	20%	10V
C836	1-162-294-31	CERAMIC	0.001uF	10%	50V
C837	1-162-294-31	CERAMIC	0.001uF	10%	50V
C838	1-104-665-11	ELECT	100uF	20%	10V
C839	1-164-159-21	CERAMIC	0.1uF		50V
C840	1-162-306-11	CERAMIC	0.01uF	30%	16V
C841	1-162-306-11	CERAMIC	0.01uF	30%	16V
C842	1-164-159-21	CERAMIC	0.1uF		50V
C843	1-161-494-00	CERAMIC	0.022uF		25V
C844	1-162-290-31	CERAMIC	470PF	10%	50V
C854	1-162-215-31	CERAMIC	47PF	5%	50V (EXCEPT AEP,UK)
C855	1-126-957-11	ELECT	0.22uF	20%	50V (EXCEPT AEP,UK)
C856	1-162-294-31	CERAMIC	0.001uF	10%	50V (EXCEPT AEP,UK)
C857	1-162-306-11	CERAMIC	0.01uF	30%	16V (EXCEPT AEP,UK)
C858	1-126-956-11	ELECT	0.1uF	20%	50V (EXCEPT AEP,UK)
C859	1-162-290-31	CERAMIC	470PF	10%	50V (EXCEPT AEP,UK)
C861	1-162-215-31	CERAMIC	47PF	5%	50V (EXCEPT AEP,UK)
C862	1-162-282-31	CERAMIC	100PF	10%	50V (EXCEPT AEP,UK)
C863	1-126-961-11	ELECT	2.2uF	20%	50V (EXCEPT AEP,UK)
C864	1-164-159-21	CERAMIC	0.1uF		50V
C865	1-126-964-11	ELECT	10uF	20%	50V (EXCEPT AEP,UK)
C866	1-126-964-11	ELECT	10uF	20%	50V (EXCEPT AEP,UK)
C867	1-164-159-21	CERAMIC	0.1uF		50V (EXCEPT AEP,UK)
C868	1-164-159-21	CERAMIC	0.1uF		50V
C869	1-164-159-21	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C870	1-126-961-11	ELECT	2.2uF	20%	50V (EXCEPT AEP,UK)
C871	1-162-290-31	CERAMIC	470PF	10%	50V
C878	1-164-159-21	CERAMIC	0.1uF		50V
C879	1-164-159-21	CERAMIC	0.1uF		50V
C880	1-164-159-21	CERAMIC	0.1uF		50V (EXCEPT AEP,UK)
		< CONNECTOR >			
* CN661	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P			
CN666	1-816-422-11	PIN, CONNECTOR 3P			
CN801	1-793-766-11	CONNECTOR, BOARD TO BOARD 30P			
CN804	1-784-780-11	CONNECTOR, FFC 19P			
		< DIODE >			
D602	8-719-991-33	DIODE 1SS133T-77			
D801	8-719-991-33	DIODE 1SS133T-77			
D802	8-719-991-33	DIODE 1SS133T-77			
D803	8-719-991-33	DIODE 1SS133T-77			
D804	8-719-991-33	DIODE 1SS133T-77			
D805	8-719-991-33	DIODE 1SS133T-77			
D806	8-719-991-33	DIODE 1SS133T-77			
D807	8-719-991-33	DIODE 1SS133T-77			
D808	8-719-991-33	DIODE 1SS133T-77			
D809	8-719-991-33	DIODE 1SS133T-77 (AUS,MX,AR,KR)			
D810	8-719-991-33	DIODE 1SS133T-77			
D811	8-719-991-33	DIODE 1SS133T-77 (E2)			
D812	8-719-991-33	DIODE 1SS133T-77 (AEP,UK)			
D813	8-719-991-33	DIODE 1SS133T-77 (AEP,UK)			
D817	8-719-991-33	DIODE 1SS133T-77			
D818	8-719-991-33	DIODE 1SS133T-77			
D819	8-719-991-33	DIODE 1SS133T-77			
D820	8-719-991-33	DIODE 1SS133T-77			
D821	8-719-991-33	DIODE 1SS133T-77			
D822	8-719-200-82	DIODE 11ES2			
D823	8-719-991-33	DIODE 1SS133T-77			
D824	8-719-991-33	DIODE 1SS133T-77			
D825	8-719-991-33	DIODE 1SS133T-77			
D826	8-719-991-33	DIODE 1SS133T-77			
		< COIL >			
FB801	1-412-473-21	INDUCTOR (SMALL TYPE)			
		< FLUORESCENT INDICATOR >			
FLD801	1-518-793-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC801	6-801-217-01	IC LC876662B-5Z81			
IC802	8-759-710-97	IC NJM4565M-D (EXCEPT AEP,UK)			
IC803	8-759-635-63	IC M51943BSL			
IC804	8-759-828-32	IC PT8300			
		< JACK >			
JK801	1-691-293-21	JACK (PHONES)			
JK803	1-815-684-11	JACK, PIN 3P (GAME INPUT VIDEO/AUDIO)			
		< DIODE >			
LED603	8-719-058-04	LED SEL5223S-TP15 (I/⏻)			
LED604	8-719-057-97	LED SEL5923A-TP15 (TAPE A/B)			
LED605	8-719-057-97	LED SEL5923A-TP15 (CD)			
LED606	8-719-057-97	LED SEL5923A-TP15 (TUNER/BAND)			
LED607	8-719-057-97	LED SEL5923A-TP15 (MD(VIDEO))			
LED608	8-719-057-97	LED SEL5923A-TP15 (GAME)			
		< TRANSISTOR >			
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q809	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R640	1-249-413-11	CARBON	470	5%	1/4W
R641	1-247-895-00	CARBON	470K	5%	1/4W
R642	1-249-437-11	CARBON	47K	5%	1/4W
R643	1-249-413-11	CARBON	470	5%	1/4W
R644	1-247-895-00	CARBON	470K	5%	1/4W
R645	1-249-437-11	CARBON	47K	5%	1/4W
R646	1-249-413-11	CARBON	470	5%	1/4W
R647	1-247-895-00	CARBON	470K	5%	1/4W
R648	1-249-437-11	CARBON	47K	5%	1/4W
R649	1-249-417-11	CARBON	1K	5%	1/4W
R650	1-247-895-00	CARBON	470K	5%	1/4W
R651	1-249-437-11	CARBON	47K	5%	1/4W
R652	1-249-433-11	CARBON	22K	5%	1/4W
R653	1-247-895-00	CARBON	470K	5%	1/4W
R681	1-247-807-31	CARBON	100	5%	1/4W
R682	1-247-807-31	CARBON	100	5%	1/4W
R683	1-247-807-31	CARBON	100	5%	1/4W
R684	1-247-807-31	CARBON	100	5%	1/4W
R685	1-247-807-31	CARBON	100	5%	1/4W
R686	1-247-807-31	CARBON	100	5%	1/4W
R687	1-247-807-31	CARBON	100	5%	1/4W
R688	1-247-807-31	CARBON	100	5%	1/4W
R689	1-247-807-31	CARBON	100	5%	1/4W
R690	1-247-807-31	CARBON	100	5%	1/4W
R801	1-247-807-31	CARBON	100	5%	1/4W
R808	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-249-429-11	CARBON	10K	5%	1/4W
R810	1-247-860-11	CARBON	16K	5%	1/4W
R811	1-249-417-11	CARBON	1K	5%	1/4W
R812	1-249-417-11	CARBON	1K	5%	1/4W
R813	1-249-417-11	CARBON	1K	5%	1/4W
R814	1-249-417-11	CARBON	1K	5%	1/4W
R815	1-249-417-11	CARBON	1K	5%	1/4W
R824	1-247-860-11	CARBON	16K	5%	1/4W
R825	1-249-413-11	CARBON	470	5%	1/4W
R826	1-249-415-11	CARBON	680	5%	1/4W
R827	1-249-417-11	CARBON	1K	5%	1/4W
R828	1-249-419-11	CARBON	1.5K	5%	1/4W
R829	1-249-419-11	CARBON	1.5K	5%	1/4W
R830	1-249-421-11	CARBON	2.2K	5%	1/4W
R831	1-247-843-11	CARBON	3.3K	5%	1/4W
R832	1-249-425-11	CARBON	4.7K	5%	1/4W
R833	1-249-427-11	CARBON	6.8K	5%	1/4W
R834	1-249-429-11	CARBON	10K	5%	1/4W
R838	1-247-860-11	CARBON	16K	5%	1/4W
R839	1-249-413-11	CARBON	470	5%	1/4W
R840	1-249-415-11	CARBON	680	5%	1/4W

PANEL | POWER AMP

Ref. No.	Part No.	Description			Remark
R841	1-249-417-11	CARBON	1K	5%	1/4W
R842	1-249-419-11	CARBON	1.5K	5%	1/4W
R843	1-249-419-11	CARBON	1.5K	5%	1/4W
R844	1-249-421-11	CARBON	2.2K	5%	1/4W
R846	1-249-429-11	CARBON	10K	5%	1/4W
R847	1-259-884-11	CARBON	4.7M	5%	1/4W
R848	1-249-415-11	CARBON	680	5%	1/4W
R852	1-247-807-31	CARBON	100	5%	1/4W
R853	1-249-401-11	CARBON	47	5%	1/4W
R854	1-249-429-11	CARBON	10K	5%	1/4W
R855	1-249-437-11	CARBON	47K	5%	1/4W
R856	1-249-437-11	CARBON	47K	5%	1/4W
R857	1-249-425-11	CARBON	4.7K	5%	1/4W
R858	1-249-429-11	CARBON	10K	5%	1/4W
R859	1-249-429-11	CARBON	10K	5%	1/4W
R860	1-249-433-11	CARBON	22K	5%	1/4W
R861	1-249-433-11	CARBON	22K	5%	1/4W
R862	1-249-429-11	CARBON	10K	5%	1/4W
R863	1-249-429-11	CARBON	10K	5%	1/4W
R864	1-249-429-11	CARBON	10K	5%	1/4W
R865	1-249-437-11	CARBON	47K	5%	1/4W
R866	1-249-437-11	CARBON	47K	5%	1/4W
R867	1-249-437-11	CARBON	47K	5%	1/4W
R868	1-249-437-11	CARBON	47K	5%	1/4W
R869	1-249-429-11	CARBON	10K	5%	1/4W
R870	1-249-429-11	CARBON	10K	5%	1/4W
R871	1-249-430-11	CARBON	12K	5%	1/4W
R872	1-249-429-11	CARBON	10K	5%	1/4W
R873	1-249-429-11	CARBON	10K	5%	1/4W
R874	1-249-429-11	CARBON	10K	5%	1/4W
R875	1-249-417-11	CARBON	1K	5%	1/4W
R876	1-249-413-11	CARBON	470	5%	1/4W
R877	1-247-891-00	CARBON	330K	5%	1/4W
R878	1-249-417-11	CARBON	1K	5%	1/4W
R879	1-249-441-11	CARBON	100K	5%	1/4W (EXCEPT AEP,UK)
R880	1-249-429-11	CARBON	10K	5%	1/4W
R881	1-249-429-11	CARBON	10K	5%	1/4W
R884	1-249-441-11	CARBON	100K	5%	1/4W (EXCEPT AEP,UK)
R885	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT AEP,UK)
R886	1-249-417-11	CARBON	1K	5%	1/4W (EXCEPT AEP,UK)
R887	1-249-433-11	CARBON	22K	5%	1/4W (EXCEPT AEP,UK)
R888	1-247-807-31	CARBON	100	5%	1/4W (EXCEPT AEP,UK)
R889	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT AEP,UK)
R890	1-247-885-00	CARBON	180K	5%	1/4W (EXCEPT AEP,UK)
R891	1-247-807-31	CARBON	100	5%	1/4W (EXCEPT AEP,UK)
R892	1-247-807-31	CARBON	100	5%	1/4W
R893	1-247-807-31	CARBON	100	5%	1/4W
R894	1-247-807-31	CARBON	100	5%	1/4W
R895	1-247-807-31	CARBON	100	5%	1/4W
R896	1-247-807-31	CARBON	100	5%	1/4W
R897	1-249-417-11	CARBON	1K	5%	1/4W (EXCEPT AEP,UK)
R899	1-249-429-11	CARBON	10K	5%	1/4W
		< VIBRATOR >			
RES801	1-579-175-11	VIBRATOR, CERAMIC (10MHz)			
		< SWITCH >			
S814	1-762-875-21	SWITCH, KEYBOARD (I/⏻ (POWER))			
S815	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S816	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
S817	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S818	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S819	1-762-875-21	SWITCH, KEYBOARD (OPEN/CLOSE ⏏)			
S820	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP/EX-CHANGE)			
S821	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY/PLAY MODE)			
S822	1-762-875-21	SWITCH, KEYBOARD (FM MODE/REPEAT)			
S823	1-762-875-21	SWITCH, KEYBOARD (DIRECTION/EDIT)			
S827	1-762-875-21	SWITCH, KEYBOARD (CD)			
S828	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S829	1-762-875-21	SWITCH, KEYBOARD (MD(VIDEO))			
S830	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S831	1-762-875-21	SWITCH, KEYBOARD (GAME)			
S832	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM)			
		< VARIABLE RESISTOR >			
VR801	1-225-739-11	RES, VAR CARBON 50K (MIC LEVEL) (EXCEPT AEP,UK)			
		< ROTARY ENCODER >			
VR802	1-477-194-11	ENCODER, ROTARY (VOLUME)			
		< VIBRATOR >			
X801	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
	A-4676-399-A	POWER AMP BOARD, COMPLETE (EXCEPT AEP,UK)			
	A-4676-486-A	POWER AMP BOARD, COMPLETE (AEP,UK)			
		**********			
		< CAPACITOR >			
C501	1-126-964-11	ELECT	10uF	20%	50V
C502	1-162-294-31	CERAMIC	0.001uF	10%	50V
C503	1-162-286-21	CERAMIC	220PF	10%	50V
C504	1-128-551-11	ELECT	22uF	20%	25V
C507	1-130-493-00	MYLAR	0.068uF	5%	50V
C508	1-130-493-00	MYLAR	0.068uF	5%	50V
C509	1-126-965-11	ELECT	22uF	20%	50V (AEP,UK)
C509	1-128-560-11	ELECT	22uF	20%	100V (EXCEPT AEP,UK)
C511	1-162-306-11	CERAMIC	0.01uF	30%	16V
C512	1-162-294-31	CERAMIC	0.001uF	10%	50V (AEP,UK)
C513	1-164-159-21	CERAMIC	0.1uF		50V (AEP,UK)

POWER AMP

Ref. No.	Part No.	Description			Remark
C541	1-130-777-00	MYLAR	0.1uF	10%	100V
C542	1-135-832-11	ELECT	2200uF	20%	50V (AEP,UK)
C542	1-137-840-11	ELECT	2200uF	20%	63V (EXCEPT AEP,UK)
C543	1-164-159-21	CERAMIC	0.1uF		50V
C544	1-126-942-61	ELECT	1000uF	20%	25V
C546	1-128-549-11	ELECT	3300uF	20%	35V
C551	1-126-964-11	ELECT	10uF	20%	50V
C552	1-162-294-31	CERAMIC	0.001uF	10%	50V
C553	1-162-286-21	CERAMIC	220PF	10%	50V
C554	1-128-551-11	ELECT	22uF	20%	25V
C557	1-130-493-00	MYLAR	0.068uF	5%	50V
C558	1-130-493-00	MYLAR	0.068uF	5%	50V
C559	1-126-965-11	ELECT	22uF	20%	50V (AEP,UK)
C559	1-128-560-11	ELECT	22uF	20%	100V (EXCEPT AEP,UK)
C591	1-130-777-00	MYLAR	0.1uF	10%	100V
C592	1-135-832-11	ELECT	2200uF	20%	50V (AEP,UK)
C592	1-137-840-11	ELECT	2200uF	20%	63V (EXCEPT AEP,UK)
		< CONNECTOR >			
CN502	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
CN503	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
* CN504	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			(EXCEPT AEP,UK)
		< DIODE >			
D501	8-719-991-33	DIODE 1SS133T-77			
D502	8-719-991-33	DIODE 1SS133T-77			
D541	8-719-510-68	DIODE D5SBA204101			
D542	8-719-200-82	DIODE 11ES2			
D543	8-719-200-82	DIODE 11ES2			
D551	8-719-991-33	DIODE 1SS133T-77			
		< EARTH TERMINAL >			
* EP501	1-537-738-21	TERMINAL, EARTH (AEP,UK)			
* EP502	1-537-738-21	TERMINAL, EARTH			
		< IC >			
IC501	8-749-016-93	IC STK402-070S (AEP,UK)			
IC501	8-749-016-96	IC STK402-120S (EXCEPT AEP,UK)			
		< TRANSISTOR >			
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP,UK)			
Q501	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			(EXCEPT AEP,UK)
Q503	8-729-119-76	TRANSISTOR 2SA1175-HFE (AEP,UK)			
Q503	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			(EXCEPT AEP,UK)
Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP,UK)			
Q504	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			(EXCEPT AEP,UK)
Q551	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP,UK)			
Q551	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			(EXCEPT AEP,UK)

Ref. No.	Part No.	Description			Remark
Q581	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP,UK)			
Q581	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA			(EXCEPT AEP,UK)
Q582	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q583	8-729-900-36	TRANSISTOR DTC124ES			
Q584	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R501	1-249-417-11	CARBON	1K	5%	1/4W
R502	1-249-438-11	CARBON	56K	5%	1/4W
R503	1-249-416-11	CARBON	820	5%	1/4W (EXCEPT AEP,UK)
R503	1-249-418-11	CARBON	1.2K	5%	1/4W (AEP,UK)
R504	1-249-438-11	CARBON	56K	5%	1/4W
R505	1-249-417-11	CARBON	1K	5%	1/4W
R506	1-249-431-11	CARBON	15K	5%	1/4W
R507	1-249-441-11	CARBON	100K	5%	1/4W
⚠ R508	1-217-151-00	METAL	0.22X2	10%	2W (AEP,UK)
⚠ R508	1-244-164-11	METAL	0.22X2	10%	5W (EXCEPT AEP,UK)
⚠ R509	1-260-076-11	CARBON	10	5%	1/2W F
⚠ R510	1-217-151-00	METAL	0.22X2	10%	2W (AEP,UK)
⚠ R510	1-244-164-11	METAL	0.22X2	10%	5W (EXCEPT AEP,UK)
⚠ R511	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠ R512	1-202-972-61	FUSIBLE	1	5%	1/4W F
R513	1-249-433-11	CARBON	22K	5%	1/4W
R514	1-249-421-11	CARBON	2.2K	5%	1/4W
R515	1-249-433-11	CARBON	22K	5%	1/4W
R516	1-249-429-11	CARBON	10K	5%	1/4W
R517	1-249-421-11	CARBON	2.2K	5%	1/4W
R518	1-249-429-11	CARBON	10K	5%	1/4W
R519	1-249-433-11	CARBON	22K	5%	1/4W
R520	1-249-441-11	CARBON	100K	5%	1/4W
R521	1-249-441-11	CARBON	100K	5%	1/4W
R522	1-249-441-11	CARBON	100K	5%	1/4W
R523	1-249-409-11	CARBON	220	5%	1/4W
R524	1-247-897-11	CARBON	560K	5%	1/4W
R525	1-249-437-11	CARBON	47K	5%	1/4W
R541	1-260-344-51	CARBON	22K	5%	1/2W
R551	1-249-417-11	CARBON	1K	5%	1/4W
R552	1-249-438-11	CARBON	56K	5%	1/4W
R553	1-249-416-11	CARBON	820	5%	1/4W (EXCEPT AEP,UK)
R553	1-249-418-11	CARBON	1.2K	5%	1/4W (AEP,UK)
R554	1-249-438-11	CARBON	56K	5%	1/4W
R555	1-249-417-11	CARBON	1K	5%	1/4W
R556	1-249-431-11	CARBON	15K	5%	1/4W
R557	1-249-441-11	CARBON	100K	5%	1/4W
⚠ R558	1-217-151-00	METAL	0.22X2	10%	2W (AEP,UK)
⚠ R558	1-244-164-11	METAL	0.22X2	10%	5W (EXCEPT AEP,UK)
⚠ R559	1-260-076-11	CARBON	10	5%	1/2W F
⚠ R560	1-217-151-00	METAL	0.22X2	10%	2W (AEP,UK)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

POWER AMP | REMOTE | SENSOR | SENSOR (CD) | (SPDL) MOTOR | SUB TRANS | SUB WOOFER

Ref. No.	Part No.	Description			Remark
⚠R560	1-244-164-11	METAL	0.22X2	10%	5W (EXCEPT AEP,UK)
⚠R561	1-212-881-11	FUSIBLE	100	5%	1/4W F
R581	1-249-433-11	CARBON	22K	5%	1/4W
R582	1-249-433-11	CARBON	22K	5%	1/4W
R591	1-260-344-51	CARBON	22K	5%	1/2W
**********					
	1-684-498-11	REMOTE BOARD (EXCEPT AEP,UK)			
	1-684-498-21	REMOTE BOARD (AEP,UK)			
		**********			
		< CONNECTOR >			
CN665	1-816-423-11	SOCKET, CONNECTOR 3P			
		< IC >			
RM601	8-759-827-70	IC NJL64H400A-1			
**********					
	1-684-501-11	SENSOR BOARD (EXCEPT AEP,UK)			
	1-684-501-21	SENSOR BOARD (AEP,UK)			
		**********			
		< THERMISTOR >			
TH501	1-807-796-11	THERMISTOR			
**********					
	1-675-911-14	SENSOR (CD) BOARD			
		**********			
		< CAPACITOR >			
C712	1-164-159-21	CERAMIC	0.1uF		50V
		< PHOTO INTERRUPTER >			
IC711	8-749-016-76	PHOTO INTERRUPTER RPI-321			
		< RESISTOR >			
R711	1-247-876-11	CARBON	75K	5%	1/4W
R712	1-249-409-11	CARBON	220	5%	1/4W
R713	1-249-429-11	CARBON	10K	5%	1/4W
		< SWITCH >			
S711	1-771-821-11	SWITCH, PUSH (1 KEY) (UP/DOWN)			
**********					
	1-684-496-11	(SPDL) MOTOR BOARD			
		**********			
		< CONNECTOR >			
CN01	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< SWITCH >			
S01	1-771-853-11	SWITCH, DETECTION (LIMIT)			
**********					

Ref. No.	Part No.	Description			Remark
	1-684-503-11	SUB TRANS BOARD (EXCEPT AEP,UK)			
	1-684-503-21	SUB TRANS BOARD (AEP,UK)			
		**********			
		< CAPACITOR >			
⚠C901	1-113-925-11	CERAMIC	0.01uF	20%	250V
C902	1-126-768-11	ELECT	2200uF	20%	16V
C903	1-126-933-11	ELECT	100uF	20%	16V
		< CONNECTOR >			
* CN2	1-564-321-21	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN2	1-568-106-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CN903	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D901	8-719-991-33	DIODE 1SS133T-77			
D902	8-719-200-82	DIODE 11ES2			
D903	8-719-200-82	DIODE 11ES2			
D904	8-719-200-82	DIODE 11ES2			
D905	8-719-200-82	DIODE 11ES2			
		< IC >			
IC901	8-759-158-62	IC TA78057S			
		< TRANSISTOR >			
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R902	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
⚠RY901	1-755-276-11	RELAY, POWER			
		< TRANSFORMER >			
⚠T901	1-435-827-11	TRANSFORMER, POWER (AEP,UK)			
⚠T901	1-435-828-11	TRANSFORMER, POWER (EXCEPT AEP,UK)			
**********					
	A-4676-498-A	SUB WOOFER BOARD, COMPLETE (AEP,UK)			
		**********			
		< CAPACITOR >			
C530	1-126-964-11	ELECT	10uF	20%	50V (AEP,UK)
C531	1-126-965-11	ELECT	22uF	20%	50V (AEP,UK)
C533	1-164-159-21	CERAMIC	0.1uF		50V (AEP,UK)
C539	1-126-965-11	ELECT	22uF	20%	50V (AEP,UK)
C555	1-162-294-31	CERAMIC	0.001uF	10%	50V (AEP,UK)
C560	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,UK)
C561	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,UK)
C562	1-162-600-11	CERAMIC	0.0047uF	30%	16V (AEP,UK)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
C563	1-162-600-11	CERAMIC	0.0047uF	30%	16V (AEP,UK)
C564	1-126-947-11	ELECT	47uF	20%	25V (AEP,UK)
C565	1-126-947-11	ELECT	47uF	20%	25V (AEP,UK)
C566	1-130-493-00	MYLAR	0.068uF	5%	50V (AEP,UK)
C567	1-130-493-00	MYLAR	0.068uF	5%	50V (AEP,UK)
C568	1-130-493-00	MYLAR	0.068uF	5%	50V (AEP,UK)
C569	1-130-493-00	MYLAR	0.068uF	5%	50V (AEP,UK)
		< CONNECTOR >			
* CN508	1-564-510-11	PLUG, CONNECTOR 7P (AEP,UK)			
CN509	1-564-506-11	PLUG, CONNECTOR 3P (AEP,UK)			
		< DIODE >			
D515	8-719-991-33	DIODE 1SS133T-77 (AEP,UK)			
D516	8-719-991-33	DIODE 1SS133T-77 (AEP,UK)			
D518	8-719-991-33	DIODE 1SS133T-77 (AEP,UK)			
		< EARTH TERMINAL >			
* EP503	1-537-738-21	TERMINAL, EARTH (AEP,UK)			
		< IC >			
IC503	8-749-016-93	IC STK402-070S (AEP,UK)			
		< TRANSISTOR >			
Q505	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP,UK)			
Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP,UK)			
Q511	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP,UK)			
Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE (AEP,UK)			
Q513	8-729-119-78	TRANSISTOR 2SC2785-HFE (AEP,UK)			
		< RESISTOR >			
R527	1-249-417-11	CARBON	1K	5%	1/4W (AEP,UK)
R528	1-249-438-11	CARBON	56K	5%	1/4W (AEP,UK)
R529	1-249-438-11	CARBON	56K	5%	1/4W (AEP,UK)
R530	1-249-418-11	CARBON	1.2K	5%	1/4W (AEP,UK)
R531	1-249-438-11	CARBON	56K	5%	1/4W (AEP,UK)
⚠ R532	1-212-881-11	FUSIBLE	100	5%	1/4W F (AEP,UK)
⚠ R533	1-217-637-00	FUSIBLE	1	5%	1/4W F (AEP,UK)
⚠ R534	1-212-881-11	FUSIBLE	100	5%	1/4W F (AEP,UK)
R537	1-249-418-11	CARBON	1.2K	5%	1/4W (AEP,UK)
R538	1-249-438-11	CARBON	56K	5%	1/4W (AEP,UK)
R539	1-249-438-11	CARBON	56K	5%	1/4W (AEP,UK)
R540	1-249-417-11	CARBON	1K	5%	1/4W (AEP,UK)
R542	1-249-429-11	CARBON	10K	5%	1/4W (AEP,UK)
R543	1-249-435-11	CARBON	33K	5%	1/4W (AEP,UK)
R544	1-249-435-11	CARBON	33K	5%	1/4W (AEP,UK)
R545	1-249-421-11	CARBON	2.2K	5%	1/4W (AEP,UK)
R546	1-249-429-11	CARBON	10K	5%	1/4W (AEP,UK)
R547	1-249-421-11	CARBON	2.2K	5%	1/4W (AEP,UK)
R548	1-249-433-11	CARBON	22K	5%	1/4W (AEP,UK)
R549	1-249-433-11	CARBON	22K	5%	1/4W (AEP,UK)
R550	1-249-433-11	CARBON	22K	5%	1/4W (AEP,UK)
⚠ R574	1-217-151-00	METAL	0.22X2	10%	2W (AEP,UK)
⚠ R575	1-217-151-00	METAL	0.22X2	10%	2W (AEP,UK)
⚠ R576	1-217-151-00	METAL	0.22X2	10%	2W (AEP,UK)
⚠ R577	1-217-151-00	METAL	0.22X2	10%	2W (AEP,UK)
⚠ R578	1-260-076-11	CARBON	10	5%	1/2W F (AEP,UK)
⚠ R579	1-260-076-11	CARBON	10	5%	1/2W F (AEP,UK)
R580	1-249-441-11	CARBON	100K	5%	1/4W (AEP,UK)
R583	1-249-441-11	CARBON	100K	5%	1/4W (AEP,UK)
R585	1-249-431-11	CARBON	15K	5%	1/4W (AEP,UK)
R586	1-249-431-11	CARBON	15K	5%	1/4W (AEP,UK)
R587	1-249-417-11	CARBON	1K	5%	1/4W (AEP,UK)
**********					
	1-684-502-11	TRANS BOARD (EXCEPT AEP,UK)			
	1-684-502-21	TRANS BOARD (AEP,UK)			
		**********			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C911	1-128-553-11	ELECT	220uF	20%	63V
C912	1-126-964-11	ELECT	10uF	20%	50V
C913	1-126-968-11	ELECT	100uF	20%	50V
C915	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN915	1-564-528-11	PLUG, CONNECTOR 13P			
		< DIODE >			
D911	8-719-200-82	DIODE 11ES2			
D912	8-719-982-20	DIODE MTZJ-30B			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

TRANS | VIDEO OUT

Ref. No.	Part No.	Description				Remark
D913	8-719-109-89	DIODE RD5.6ES-B2				
		< TRANSISTOR >				
Q911	8-729-048-52	TRANSISTOR 2SA1932(TP)				
		< RESISTOR >				
R905	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R911	1-217-637-00	FUSIBLE	1	5%	1/4W	F
R912	1-249-417-11	CARBON	1K	5%	1/4W	
R913	1-249-429-11	CARBON	10K	5%	1/4W	
R915	1-247-807-31	CARBON	100	5%	1/4W	
R916	1-247-807-31	CARBON	100	5%	1/4W	
⚠R919	1-219-122-11	FUSIBLE	0.33	5%	1/4W	F
⚠R920	1-219-122-11	FUSIBLE	0.33	5%	1/4W	F
		< SWITCH >				
⚠S901	1-786-055-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR)				(E2,E51,SP)
**********						
	1-684-499-11	VIDEO OUT BOARD (EXCEPT AEP,UK)				
	1-684-499-21	VIDEO OUT BOARD (AEP,UK)				
		**********				
		< CONNECTOR >				
* CN605	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P				
		< JACK >				
JK602	1-774-227-31	JACK, PIN 1P (VIDEO OUT)				
**********						
		MISCELLANEOUS				
		**********				
67	1-773-119-11	WIRE (FLAT TYPE) (19 CORE)				
70	1-796-361-11	DECK, MECHANISM (AEP,UK)				
70	1-796-362-11	DECK, MECHANISM (EXCEPT AEP,UK)				
101	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)				
⚠106	1-690-608-11	CORD, POWER (AUS)				
⚠106	1-751-521-11	CORD, POWER (UK)				
⚠106	1-769-079-21	CORD, POWER (KR)				
⚠106	1-777-071-82	CORD, POWER (AEP,E51,SP)				
⚠106	1-783-941-22	CORD, POWER (AR)				
⚠106	1-791-901-11	CORD, POWER (E2,MX)				
159	1-791-983-12	WIRE (FLAT TYPE) (8 CORE)				
166	1-471-035-11	MAGNET ASSY				
173	1-823-859-11	WIRE (FLAT TYPE) (16 CORE)				
207	X-2161-802-1	CHASSIS ASSY (DCP), T.T (including M01)				
⚠208	8-820-020-11	OPTICAL PICK-UP KSS-213D				
⚠F914	1-533-949-31	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)				
⚠F919	1-533-472-11	FUSE, GLASS TUBE (DIA.5) (T5AL/250V)				(E2,E51,SP,AR)
⚠F920	1-533-949-31	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)				
FAN961	1-763-738-21	FAN, DC				
M02	X-2625-769-1	GEAR ASSY (MB) (RP), MOTOR				
M721	A-4672-826-A	MOTOR ASSY (TURN)				
⚠T911	1-437-228-11	TRANSFORMER, POWER (EXCEPT AEP,UK)				
⚠T911	1-437-701-11	TRANSFORMER, POWER (AEP,UK)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

HCD-RG55/RG55S

SONY

SERVICE MANUAL

Ver 1.1 2002. 06

AEP Model
UK Model
HCD-RG55S
E Model
Australian Model
HCD-RG55

SUPPLEMENT-1

File this supplement with the service manual.

Subject : Addition of IC Pin Description.
Addition of Block Diagrams.

TABLE OF CONTENTS

1. IC Pin Description 2
2. Block Diagram –CD, Tuner Section– 5
3. Block Diagram –Main Section– 6

1. IC PIN DESCRIPTION

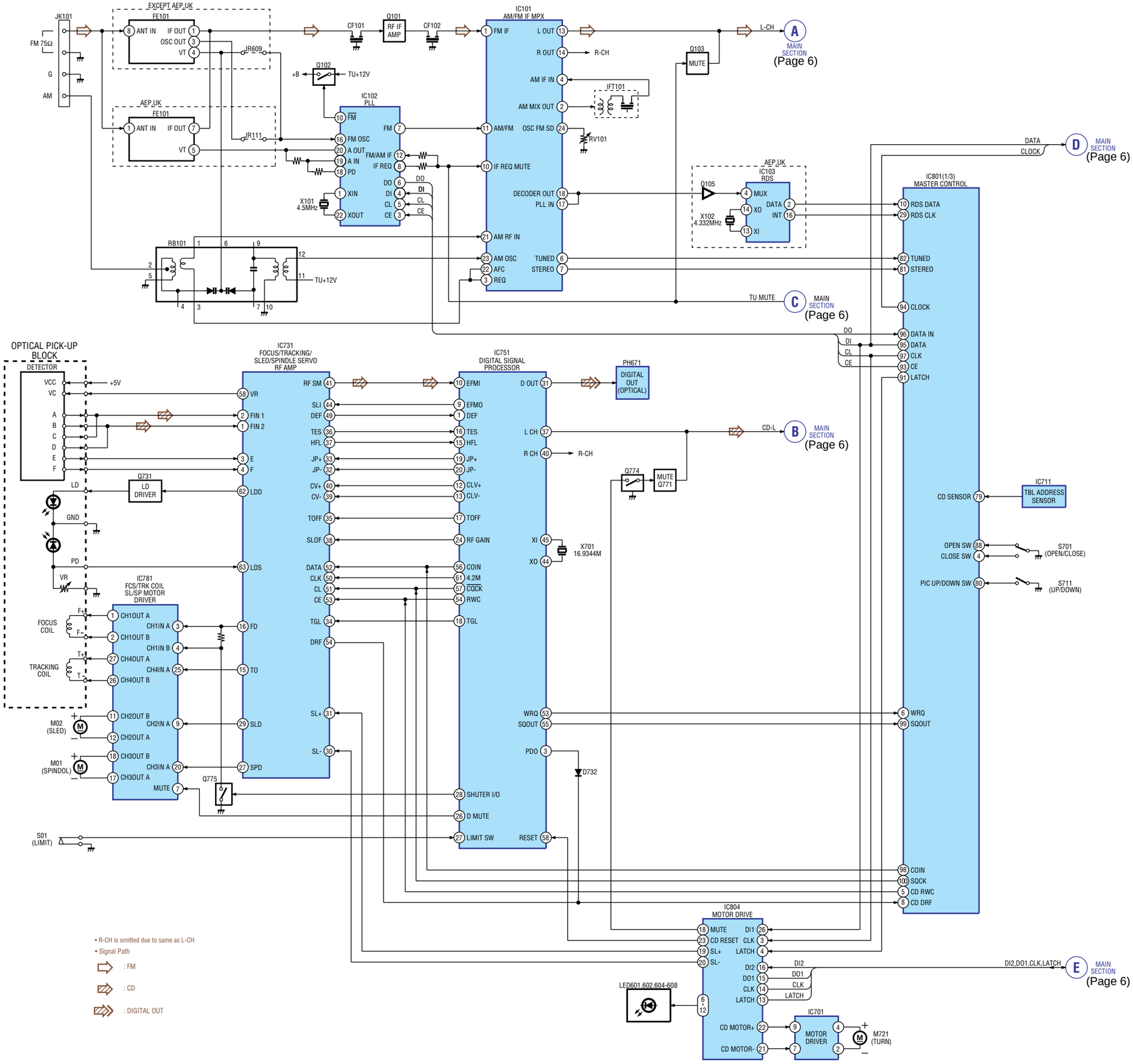
• IC801 LC876662B-5Z81 (MASTER CONTROL) (PANEL BOARD)

Pin No.	Pin Name	I/O	Description
1	PWR LED	O	PWR LED control signal output
2	P.S.RELAY	O	Standby relay control signal output
3	SYS MUTE	O	System muting signal output
4	CD CLOSE	I	CD tray close switch signal input
5	CD RWC/F.CLOCK	O	Read/write control signal output
6	CD WRQ/F.DATA	I	Subcode Q standby signal input
7	FLASH R/W	—	Fixed at “H”
8	CD DRF	I	RF level detection signal input
9	AMS IN	I	AMS signal input
10	BU1924 DATA	I	Data input from the RDS decoder IC
11	RESET	I	Reset signal input
12	XT1	I	Connection for a crystal resonator (32.768 MHz)
13	XT2	O	Connection for a crystal resonator (32.768 MHz)
14	VSS	—	Ground pin
15	CF1	I	Connection for a ceramic resonator (10 MHz)
16	CF2	O	Connection for a ceramic resonator (10 MHz)
17	VDD1	—	Power sypply pin (+5 V)
18	TAPE A STAT	I	TAPE A switches signal input
19	TAPE B STAT	I	TAPE B switches signal input
20	VACS	O	VACS control signal output
21	SPEANA IN H	I	Spectrum analyzer signal input
22	SPEANA IN MH	I	Spectrum analyzer signal input
23	SPEANA IN M	I	Spectrum analyzer signal input
24	SPEANA IN L	I	Spectrum analyzer signal input
25	KEY INPUT 0	I	Function key input
26	KEY INPUT 1	I	Function key input
27	KEY INPUT 2	I	Function key input
28	PWR DOWN	I	Power down signal input
29	BU1924 CLK	I	Clock input from the RDS decoder IC
30 to 42	G13 to G01	O	FL tube grid signal ouput
43 to 45	P01 to P03	O	FL tube segment signal ouput
46	VDD	—	Power supply pin (+5 V)
47 to 50	P04 to P07	O	FL tube segment signal ouput
51	VPP	—	Power supply (negative) pin (–28 V)
52 to 64	P08 to P20	O	FL tube segment signal ouput
65 to 68	P21 OP. OUT 10(SW10) to P24 OP. OUT 07(SW07)	O	FL tube segment signal output or switch signal output
69 to 71	P25 OP. OUT05(SW06) to P27OP. OUT 03(SW04)	O	FL tube segment signal output or switch signal output
72	VDD	—	Power supply pin (+5 V)
73 to 75	P28 OP. OUT 02(SW03) to P30 OP. OUT 00(SW01)	O	FL tube segment signal output or switch signal output
76	OP. SW IN (MODE SW IN)	I	Switch signal input
77	PROTECTOR SENSOR	I	Power amplifier circuit protection signal input
78	HEADPHONE SENSOR	I	Headphone detection signal input
79	CD SENS	I	Table address sensor signal input

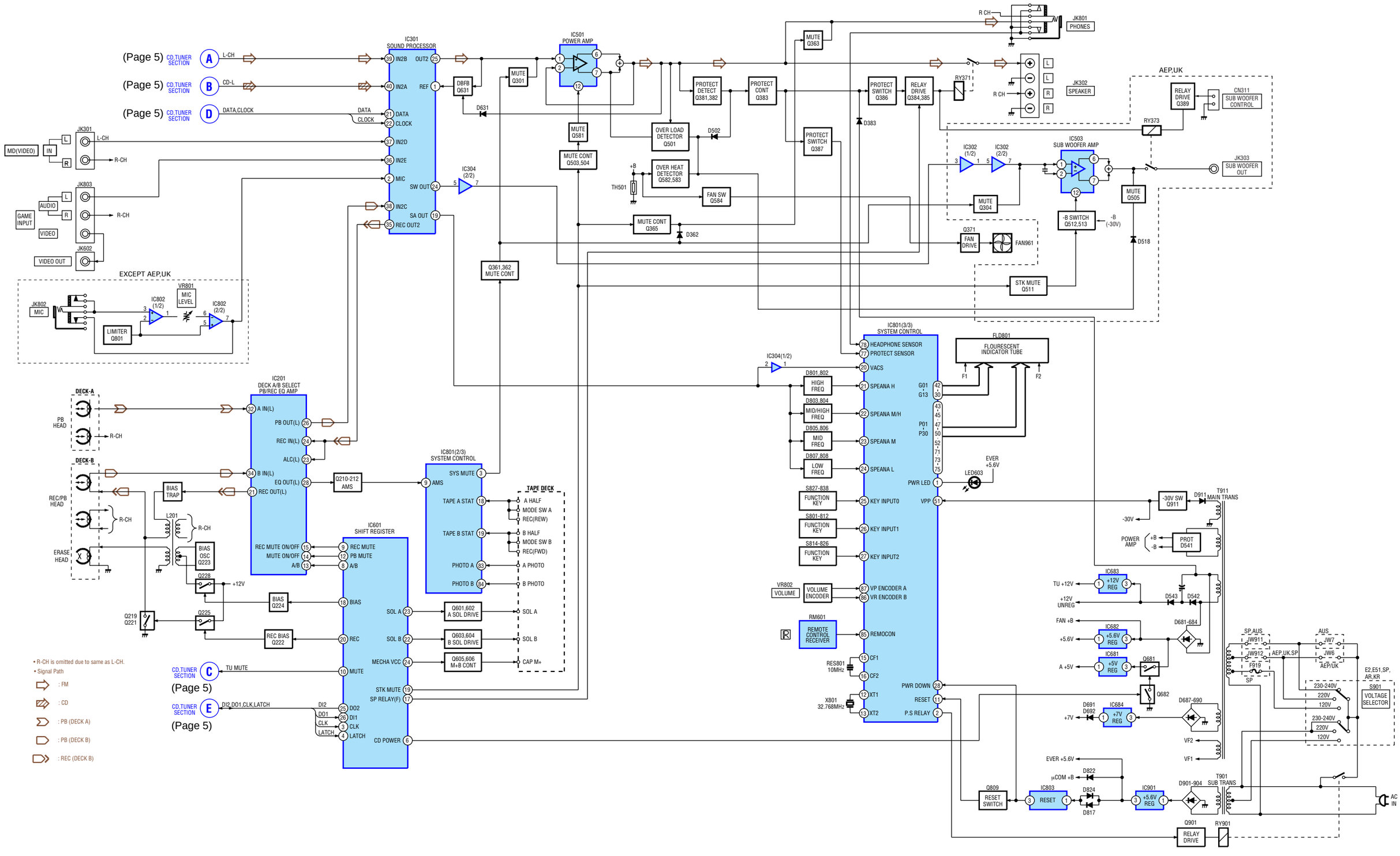
Pin No.	Pin Name	I/O	Description
80	CD U/D SW	I	CD BU up/down switch signal input
81	STEREO	I	Stereo tuning signal input
82	TUNED	I	Tuning a frequency signal input
83	TAPE PHOTO SENSOR-A	I	A deck photo sensor singanl input
84	TAPE PHOTO SENSOR-B	I	B deck photo sensor singanl input
85	REMCON IN	I	Data input from the remote control receiver
86	VR ENCODER B	I	Volume signal input from the rotary encoder
87	VR ENCODER A	I	Volume signal input from the rotary encoder
88	CD OPEN	I	CD tray open switch signal input
89	VSS	—	Ground pin
90	VDD	—	Power supply pin (+5 V)
91	PT8300-A LATCH	O	Latch signal output to the I/O expander
92	PT8300-B LATCH	O	Latch signal output to the I/O expander Not used. (open)
93	LC72131 CE	O	Chip enable signal output to the PLL tuner IC
94	M61519 CLOCK	O	Clock output to the sound processor
95	LC72131,PT8300-AB, M61519 DATA	O	Data output to the PLL tuner IC, the I/O expander and the sound processor
96	LC72131 DATA IN	I	Data input from the the PLL tuner IC
97	LC72131,PT8300 CLK	O	Clock output to the PLL tuner IC and the I/O expander
98	COIN	O	CD command data signal output
99	SQOUT	I	CD subcode Q signal input
100	SQCK	O	CD command clock signal output

MEMO

2. BLOCK DIAGRAM — CD, TUNER SECTION —



3. BLOCK DIAGRAM — MAIN SECTION —



MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002. 05	New
1.1	2002. 06	Addition of IC Pin Description and Block Diagrams.